

THE  
BOTANIST'S POCKET BOOK

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W. R. HAYWARD

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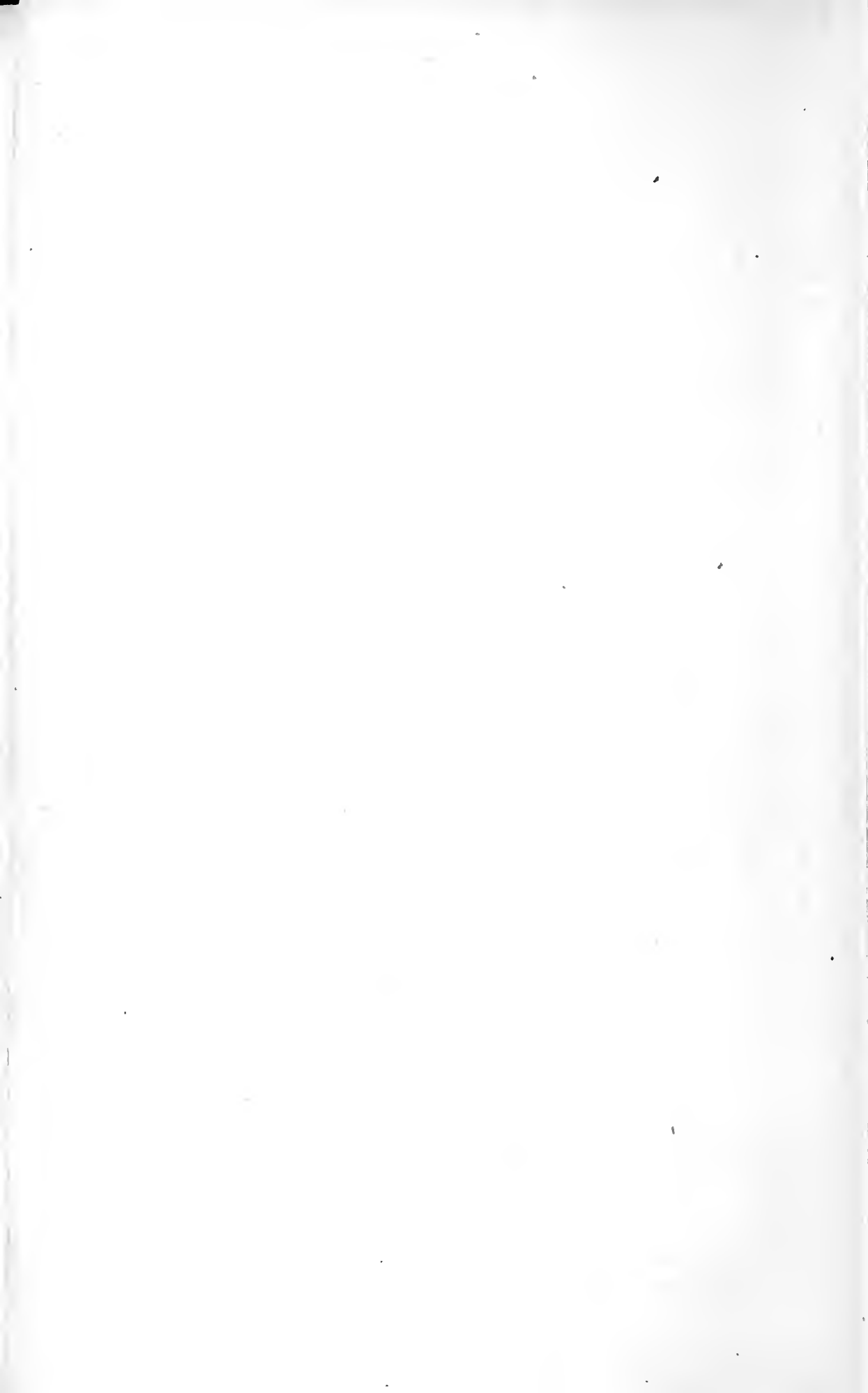
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THE  
BOTANIST'S POCKET-BOOK.

CONTAINING IN A TABULATED FORM THE  
CHIEF CHARACTERISTICS OF  
BRITISH PLANTS.

WITH  
THE BOTANICAL NAME, COMMON NAME, SOIL OR SITUATION,  
COLOUR, GROWTH, AND TIME OF FLOWERING OF EVERY  
PLANT, ARRANGED UNDER ITS OWN ORDER.

By W. R. HAYWARD.

FOURTH EDITION.

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STAMFORD STREET AND CHARING CROSS.

## PREFACE TO THE SECOND EDITION.

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SINCE the issue of the first edition of this little book the seventh edition of the London Catalogue of British Plants has been published, and the admission therein of several new species and some fresh varieties has made corresponding additions to this work necessary. In many cases the arrangement will be found to differ from that of the London Catalogue, which classifies only into species and varieties and does not recognise sub-species.

Every variety of any prominence, and all species not included in the previous edition, will be found in Appendix II. ; and the compiler has little doubt that the work will fully satisfy the requirements of that class of students for whom it is chiefly intended.

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## NOTE TO THIRD EDITION.

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IN this edition the Appendix has been thoroughly revised and brought up to the present date, and the Indices of Orders and Genera and of Common Names have been incorporated into one, an alteration which it is thought will facilitate reference. The Index has also been greatly improved by the addition of references to the last Edition of Sowerby's English Botany, to which standard work this handbook will now be found a useful adjunct.

## INTRODUCTION.

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HAVING in my botanical rambles frequently found the want of a book of reference to determine some doubtful point, I have endeavoured in the following pages, to compress into the smallest compass such information, as will enable any one tolerably conversant with British flowering plants, to determine their species and varieties.

I venture to hope that my little book will prove useful where a larger book would be an incumbrance, by affording information to the tyro, and also by refreshing the memory of the more advanced botanist, who, by examining on the spot any doubtful plant, may be saved the trouble of carrying home specimens of little value. It is not intended as a book for the study, nor as a rival to the many excellent and complete manuals of our leading botanists ; but I trust it will be accepted for what it is, viz., "A Botanist's Pocket Book."

Although the book is chiefly intended for the more advanced botanist, a list of the characteristic features of the different orders has been added for the benefit of the beginner. I have not attempted to tabulate them, but only to give a short description of the general appearance of the plants, their habit of growth, the usual characteristics of their flowers, and the marks by which they may most generally be distinguished from those of other orders.

I have tabulated the Genera for the use of beginners, and have therefore used the more prominent parts of the plants, such as the

leaves, petals, &c., and omitted, except where absolutely necessary, the more intricate differences of the fruit, &c.

In describing the individual plants, I have used as many abbreviations as could satisfactorily be made, and I believe they are such as the reader will quickly become acquainted with.

In the first column of the left-hand page I have given the scientific name of each plant, with its varieties. These I have adopted from the "London Catalogue," and, with few exceptions, I have arranged them in the order in which they are there classified. Several varieties there mentioned I have omitted, because on reference to our leading Floras, I have either failed to find them described, or their differences are so small as not to warrant their insertion.

In the next column will be found the English names—next their place of growth, colour, general height, duration, and time of flowering. In the English names I have followed those given in "Hooker and Arnott's Flora."

The colour I have given is that of the general or prevailing colour of the corolla. The height and time of flowering naturally vary with the soil, situation, and climate.

On the right-hand page will be found the characters which distinguish the species and varieties from their type. In some cases I have divided the species into sub-species, which may be recognized by the prefixes *a*, *b*, &c. These again are sometimes divided into varieties.

The varieties of several plants I have vainly endeavoured to compress into such limits as are consistent with the character of the book. These belong to the Genera *Rubus*, *Rosa*, *Hieracium*, and *Salix*. They are a study of themselves, and the tyro must not expect to name his specimens by a cursory examination, but must diligently study them by the aid of such books as have treated of them more fully.

I would refer the student of the Rubi to Professor Babington's "British Rubi." The Genus *Rosa* has been ably systematized by

Mr. J. G. Baker in the "Linnæan Journal," xi. 197. Mr. Backhouse's "Monograph of British Hieracia" may be advantageously consulted ; and to the Salices, Symes' "English Botany" will be a safe guide.

I have added a short list of plants found in several parts of the kingdom, which have no claim to be indigenous, or even as yet to be naturalized. They are in most cases escapes from gardens, or have been introduced in seed or ballast.

I trust that my little book will supply a want which the various Floras already published do not provide for, and that the botanist reserving deeper study for his library may, when in the field or on the mountain, find it a useful and portable companion.



## RIGHT-HAND PAGE.

|                                       |                                |                               |                                |
|---------------------------------------|--------------------------------|-------------------------------|--------------------------------|
| ac.— <i>acute</i> .                   | cylind.— <i>cylindrical</i> .  | interr.— <i>interrupted</i> . | retic.— <i>reticulate</i> .    |
| ach.— <i>achene</i> .                 | decid.— <i>deciduous</i> .     | invol.— <i>involute</i> .     | revol.— <i>revolute</i> .      |
| acum.— <i>acuminate</i> .             | decumb.— <i>decumbent</i> .    | irreg.— <i>irregular</i> .    | rhomb.— <i>rhomboid</i> .      |
| adpr.— <i>adpressed</i> .             | decurr.— <i>decurrent</i> .    | L., l., ls.— <i>leaf</i> .    | rostr.— <i>rostrate</i> .      |
| aggre.— <i>aggregate</i> .            | delt.— <i>deltoid</i> .        | } <i>leaves</i> .             | rt.— <i>root</i> .             |
| alt.— <i>alternate</i> .              | dent.— <i>dentate</i> .        | lacin.— <i>lacinate</i> .     | runc.— <i>runcinate</i> .      |
| amplex.— <i>amplexical</i> .          | dentic.— <i>denticulate</i> .  | lanc.— <i>lanceolate</i> .    | sagit.— <i>sagittate</i> .     |
| ang.— <i>angular</i> .                | dichot.— <i>dichotomous</i> .  | lat.— <i>lateral</i> .        | scab.— <i>scabrous</i> .       |
| ann.— <i>annual</i> .                 | diff.— <i>diffuse</i> .        | lfts.— <i>leaflets</i> .      | seg.— <i>segment</i> .         |
| anth.— <i>anther</i> .                | digit.— <i>digitate</i> .      | lin.— <i>linear</i> .         | sep.— <i>sepal</i> .           |
| apic.— <i>apiculate</i> .             | dist.— <i>distant</i> .        | lyr.— <i>lyrate</i> .         | serr.— <i>serrate</i> .        |
| approx.— <i>approximate</i> .         | divar.— <i>divaricate</i> .    | marg.— <i>margins</i> .       | sess.— <i>sessile</i> .        |
| arc.— <i>arcuate</i> .                | ellip.— <i>elliptical</i> .    | memb.— <i>membraneous</i> .   | simp.— <i>simple</i> .         |
| aris.— <i>aristate</i> .              | elong.— <i>elongate</i> .      | mucro.— <i>mucronate</i> .    | sinu.— <i>sinuate</i> .        |
| asc.— <i>ascending</i> .              | emarg.— <i>emarginate</i> .    | obt.— <i>obtuse</i> .         | sol.— <i>solitary</i> .        |
| atten.— <i>attenuate</i> .            | ensi.— <i>ensiform</i> .       | opp.— <i>opposite</i> .       | sp.— <i>species</i> .          |
| aur.— <i>auricle</i> .                | ent.— <i>entire</i> .          | ov.— <i>oval</i> .            | spath.— <i>spathulate</i> .    |
| axill.— <i>axillary</i> .             | falc.— <i>falcate</i> .        | palm.— <i>palmate</i> .       | spher.— <i>spherical</i> .     |
| bar.— <i>barren</i> .                 | fert.— <i>fertile</i> .        | pan.— <i>panicled</i> .       | spic.— <i>spicate</i> .        |
| cal.— <i>calyx</i> . [ <i>late</i> ]. | fibr.— <i>fibrous</i> .        | part.— <i>partite</i> .       | spin.— <i>spinulose</i> .      |
| campan.— <i>campanu-</i>              | fila.— <i>filament</i> .       | pect.— <i>pectinate</i> .     | spread.— <i>spreading</i> .    |
| capill.— <i>capillary</i> .           | fili.— <i>filiform</i> .       | pedi.— <i>pedicel</i> .       | st.— <i>stem</i> .             |
| capit.— <i>capitate</i> .             | Fl., fs.— <i>flower</i> .      | pedunc.— <i>peduncle</i> .    | sta.— <i>stamen</i> .          |
| caps.— <i>capsule</i> .               | } <i>flowers</i> .             | pelt.— <i>peltate</i> .       | stig.— <i>stigma</i> .         |
| carp.— <i>carpel</i> .                | flex.— <i>flexuous</i> .       | pend.— <i>pendulous</i> .     | stip.— <i>stipule</i> .        |
| catk.— <i>catkin</i> .                | flo.— <i>floating</i> .        | per.— <i>perennial</i> .      | } <i>stipuled</i> .            |
| cil.— <i>ciliate</i> .                | foll.— <i>follicle</i> .       | perfol.— <i>perfoliate</i> .  | subu.— <i>subulate</i> .       |
| cli.— <i>climbing</i> .               | fr.— <i>fruit</i> .            | peri.— <i>perianth</i> .      | succ.— <i>succulent</i> .      |
| con. {— <i>conical</i> .              | fro.— <i>frond</i> .           | persis.— <i>persistent</i> .  | tend.— <i>tendrill</i> .       |
| coni. {— <i>conical</i> .             | fusi.— <i>fusiform</i> .       | pet.— <i>petal</i> .          | } <i>tendrilled</i> .          |
| conn.— <i>connate</i> .               | gl.— <i>glume</i> .            | pinn.— <i>pinnate</i> .       | term.— <i>terminal</i> .       |
| contig.— <i>contiguous</i> .          | glab.— <i>glabrous</i> .       | pinnfid.— <i>pinnatifid</i> . | tern.— <i>ternate</i> .        |
| contin.— <i>continuous</i> .          | gland.— <i>glandular</i> .     | procumb.— <i>procumbent</i> . | triang.— <i>triangular</i> .   |
| cor.— <i>corolla</i> .                | glauc.— <i>glaucous</i> .      | prost.— <i>prostrate</i> .    | trique.— <i>triquetrous</i> .  |
| cord.— <i>cordate</i> .               | glob.— <i>globose</i> .        | pubesc.— <i>pubescent</i> .   | trunc.— <i>truncate</i> .      |
| coria.— <i>coriaceous</i> .           | glu.— <i>glumv</i> .           | pyram.— <i>pyramidal</i> .    | tub.— <i>tuberos</i> .         |
| corym.— <i>corymb</i> .               | hemis.— <i>hemispherical</i> . | rac.— <i>raceme</i> .         | tuberc.— <i>tuberculate</i> .  |
| } <i>corymb</i> .                     | herb.— <i>herbaceous</i> .     | } <i>racemose</i> .           | turb.— <i>turbinate</i> .      |
| } <i>bose</i> .                       | imbric.— <i>imbricate</i> .    | rad.— <i>radical</i> .        | umbel.— <i>umbellate</i> .     |
| cr.— <i>creeping</i> .                | infl.— <i>inflated</i> .       | reflex.— <i>reflexed</i> .    | unilat.— <i>unilateral</i> .   |
| cun.— <i>cuneate</i> .                | inflex.— <i>inflexed</i> .     | reni.— <i>reniform</i> .      | urc.— <i>urceolate</i> .       |
|                                       |                                |                               | vertic.— <i>verticillate</i> . |



## SYNOPSIS OF THE NATURAL ORDERS.

### Class I.—Dicotyledons.

Plants with leaves usually with netted veins—Parts of the corolla 4-5 or their multiples.

#### DIV. I —PLANTS WITH BOTH CALYX AND COROLLA.

\* POLYPETALÆ.—*Corolla of free, separate petals.*

##### A. Stamens hypogynous.

✓ 1. RANUNCULACEÆ.—Sta. 12 or more—Pet. 5 or more—Sep. mostly 5, distinct—Fr. of many distinct carpels, or one-seeded achenes—*Herbs mostly with alt. leaves and regular fls.*

2. BERBERIDACEÆ.—Sta. 6—Pet. and sep. 6—Fruit a berry—*A shrub with 3 partite spines, alt. leaves, and pendulous flowers.*

3. NYMPHÆACEÆ.—Sta. many, gradually passing into petals, and these into sepals—Ovary many celled, many seeded—*Aquatic plants with floating leaves and sol. fls.*

✓ 4. PAPAVERACEÆ.—Sta. indefinite—Pet. 4—Sep. 2, deciduous—Ovary 1 celled with membranous divisions—*Herbs with milky juice, alternate, exstipulate leaves and regular flowers, usually nodding in bud.*

5. FUMARIACEÆ.—Sta. 6 in two bundles—Pet 4 irregular—Sep. 0. or 2, deciduous—Ovary 1 celled—*Herbs with usually much divided exstipulate leaves, and racemed irregular flowers (usually purplish).*

✓ 6. CRUCIFERÆ.—Sta. 6 (4 long and 2 short)—Pet. 4, cruciate—Sep. 4—Ovary 1-2 celled—Fruit a pouch or pod—*Herbs with alternate, exstipulate leaves, and racemed, regular fls. (usually yellow or white).*

✓ 7. RESEDACEÆ.—Sta. many (10-24)—Pet. 4-7 irregular—Sep. 4-5 persistent—Ovary 3 lobed, 1 celled—*Herbs (rarely shrubs) with alternate, exstipulate leaves and spiked, irregular, greenish flowers.*

8. CISTACEÆ.—Sta. many—Pet. 5, twisted in bud—Sep. 5, 2 outer smaller—Ovary 3 partite, 1 celled—*Herbs or low shrubs with entire, opposite leaves and mostly racemed, regular flowers (usually yellow).*

✓ 9. VIOLACEÆ.—Sta. 5—Pet. 5 unequal, lower spurred—Sep. 5, persistent—Ovary 3 partite, 1 celled—*Small herbs with alternate, stipuled leaves and axillary, irregular flowers.*

10. DROSERACEÆ.—Sta. 5 or 10—Pet. 5—Sep. 5 imbricate—Ovary 1 celled—*Low marsh herbs with (generally) radical, glandular leaves and cymose, regular flowers (whitish).*

✓ 11. POLYGALACEÆ.—Sta. 8, in 2 bundles—Pet. 3-5 unequal—Sep. 5 inner petaloid—Capsule 2 celled—*Herbs with alternate, exstipulate, simple leaves and racemose, irregular flowers.*

12. FRANKENIACEÆ.—Sta. 4-6—Pet. 4-6, clawed—Sep. 4-6, combined into a tube at base—Ovary 1 celled, 2-4 valved—*A low branched herb with opposite, exstipulate leaves and small, axillary, red flowers.*

13. ELATINACEÆ.—Sta., pet., and sep. 2-5—Capsule 3-5 valved—*Small aquatic herbs with spathulate, stipulate leaves and minute, axillary flowers.*

14. CARYOPHYLLACEÆ.—Sta. 8-10—Pet. 4-5—Sep. 4-5—Capsule 1 celled, opening at top with teeth—*Herbs mostly with jointed stems, opposite ls., and regular flowers (white or red).*

15. LINACEÆ.—Sta. 4-5—Pet. 4-5, twisted in bud, clawed, fugacious—Sep. 4-5 persistent—Capsule 3-5 celled—*Herbs with entire, exstipulate leaves and mostly cymose, regular flowers (generally blue).*

16. MALVACEÆ.—Sta. many, united into a tube—Pet 5, twisted in bud—Sep. 5—Ovary many celled—*Herbs with alternate, stipuled leaves and axillary flowers (red).*

17. TILIACEÆ.—Sta. many—Pet. and sep. 4-5—Ovary 2-10 celled—*Trees with alternate, stipuled leaves and cymose, inconspicuous, regular flowers.*

18. HYPERICACEÆ.—Sta. many, united in bundles—Pet. 4-5, twisted in bud—Sep. 4-5, with glandular dots—Capsule 3-5 celled—*Shrubs or mostly herbs with opposite, exstipulate, often glandular, dotted leaves and mostly cymose, regular flowers (yellow).*

19. ACERACEÆ.—Sta. 8, inserted on disk—Pet. 4-9, imbricate in bud—Sep. 4-9—Fruit a Samara—*Trees with opposite leaves and small, green regular flowers.*

20. GERANIACEÆ.—Sta. 5-10—Pet. 5 clawed—Sep. 5, persistent—Carpels 5 surrounding a long beak—*Herbs with stipuled, lobed leaves and handsome, regular fls. (mostly red).*

21. BALSAMINACEÆ.—Sta. 5—Pet. 5, irreg., united in pairs—Sep. 5 or 3 by abortion—Capsule bursting with elastic valves—*Succulent herbs with simple, alternate leaves and axillary, irregular yellow flowers.*

22. OXALIDACEÆ.—Sta. 10—Pet 5, cohering at base—Sep. 5—Carpel 5 celled, many seeded—*Low herbs with radical, generally trifoliate leaves and axillary, regular flowers.*

#### b. Stamens perigynous or epigynous.

23. CELASTRACEÆ.—Sta. 4-5, alternating with petals—Sep. 4-5—Capsule fleshy—*Trees or shrubs with simple, opposite leaves and small, regular flowers in axillary cymes.*

24. RHAMNACEÆ.—Sta. 4-5, opposite the petals—Sep. 4-5—Ovary superior, 3 celled—*Shrubs with simple leaves and small, greenish, regular flowers.*

25. LEGUMINOSÆ.—Sta. generally 10—Pet. 5, irregular, papilionaceous—Sep. 4-5, combined—Fruit a pod—Ovary superior—*Herbs or shrubs with alternate, stipuled leaves, mostly ternate or pinnate, sometimes tendrilled, and irregular flowers.*

26. ROSACEÆ.—Sta. indefinite—Pet. 5, equal—Sep. 4-5—Ovary superior, 2 celled—*Shrubs or herbs with stipuled, alternate leaves and showy (mostly red or yellow) flowers.*

27. ONAGRACEÆ.—Sta. 2-4 or 8—Pet. 2-4, twisted in bud—Sep. 2-4—Ovary inferior, 1-4 celled, many seeded—*Herbs with mostly entire leaves and regular, showy flowers (generally red).*

28. HALORAGIACEÆ.—Sta. 1-2-4 or 8—Pet. generally 0—Sep. 2-4—Ovary inferior, 1-4 celled—*Aquatic herbs with whorled leaves and minute flowers.*

29. LYTHRACEÆ.—Sta. as many or twice as many as pet.—Pet. 3-6, crumpled in bud—Sep. 3-6—Ovary superior—*Herbs with opposite or whorled, entire leaves and showy, regular flowers.*

30. TAMARISCACEÆ.—Sta. 4 or more—Pet. 4-5—Sep. 4-5—*Shrub with minute scale-like leaves and small, regular flowers in lateral spikes.*

31. CUCURBITACEÆ.—Sta. 3—Pet. 5—Sep. 5-cleft—Ovary inferior—Fr. fleshy—*A climbing herb, with tendrilled leaves, and flowers in axillary racemes.*

32. PORTULACACEÆ.—Sta. 3-5—Pet. 5—Sep. 2—Ovary superior, 1 celled—*A low succulent herb, with opposite leaves and small flowers.*

33. ILLECEBRACEÆ.—Sta. 1-5—Pet. 4-5, or 0. in Gen. I.—Sep. 4-5—Ovary superior—*Small branching herbs, with entire sessile leaves and small flowers.*

34. SCLERANTHACEÆ.—Sta. 1-10—Pet. 0.—Cal. 4-5 lobed—Ovary superior—*Small, low, tufted herbs, with opposite, connate leaves, and small, green, axillary flowers.*

35. GROSSULARIACEÆ.—Sta. 4-5, alternate with pet.—Sep. 4-5—Ovary inferior—Fruit a pulpy berry—*Shrubs with lobed leaves and small greenish flowers.*

36. CRASSULACEÆ.—Sta. 3-20, inserted on base of sep.—Pet. and sep. 4-12—Ovaries superior, as many as pet.—*Mostly low, succulent herbs, with small, starry, regular flowers.*

37. SAXIFRAGACEÆ.—Sta. 5-10—Pet. 4-5—Sep. 4-5—Ovary superior—*Herbs (mostly mountainous) with various leaves and regular flowers.*

38. ARALIACEÆ.—Sta. 5—Pet. 5—Cal. 3-5 cleft—Ovary inferior—Fruit a berry—*A low herb and a climbing shrub, with green flowers.*

39. CORNACEÆ.—Sta. 4-5—Pet. 4-5—Cal. 0. or 5 cleft—Ovary inferior—*Herbs or shrubs, with opposite leaves and small flowers.*

40. UMBELLIFERÆ.—Sta. 5—Pet. 5—Sep. 5 or 0.—Ovary inferior—Fruit of 2 adhering carpels—*Herbs with mostly compound leaves, and small, white, umbelled flowers.*

41. LORANTHACEÆ.—Sta. 4—Pet. 4—Sep. 0.—Ovary inferior—Fruit a pulpy berry—*A parasitic shrub, with entire fleshy leaves and inconspicuous flowers.*

*Plants with petals apparently more or less united at base occur in Ord. v., Ord. xi., Ord. xxx., Ord. xxxi., Ord. xxxii., and Ord. xxxvi. (Gen. Cotyledon).*

\* \* MONOPETALÆ.—*Corolla monopetalous.*

† *Ovary inferior.*

a. *Stamens on the corolla.*

(*See also Ord. xlvii., Gen. Lobelia.*)

42. CAPRIFOLIACEÆ.—Sta. 4-5, alternate with lobes of cor.—Cal. 5 cleft—Fruit a berry—*Mostly shrubs, with opposite leaves and showy (sometimes irregular) flowers.*

43. RUBIACEÆ.—Sta. 3-5, alternate with lobes of cor.—Cal. 4-5 cleft—Carpels 2 celled—*Herbs with whorled (sometimes prickly) leaves and small, regular flowers.*

44. VALERIANACEÆ.—Sta. 1 or 3—Cor. 5 cleft—Cal. toothed—Ovary 1 celled—*Herbs with opposite leaves and small (sometimes irregular) flowers.*

45. DIPSACEÆ.—Sta. 4—Cor. 4-5 lobed—Cal. enclosed in a scarious involucl.—Anthers free—Seeds pendulous—*Herbs with capitate involuclate heads (mostly blue).*

46. COMPOSITÆ.—Sta. 4-5—Cor. tubular or ligulate—Cal. 0.—Anthers mostly connate—Seeds erect—*Herbs with various leaves, and flowers mostly white or yellow, collected into compound heads.*

b. *Stamens on the ovary.*

47. CAMPANULACEÆ.—Sta. 5—Cor. and cal. mostly 5 lobed—Ovary 2-8 celled—*Herbs with milky juice; alternate, entire leaves, and showy (mostly blue) regular flowers.*

48. ERICACEÆ.—(*Gen. Vaccinium*)—Sta. 8-10—Cor. and cal. 4-5 lobed—Fruit a fleshy berry, 4-5 celled—*Low shrubs (mostly mountainous), with alternate ls. and sol. regular fls. (mostly white or red).*

## † † Ovary superior.

## a. Stamens free from corolla.

48. ERICACEÆ (except *Vaccinium*).—Sta. 5-8-10—Cor. and cal. 4-5 cleft—Fruit 3-5 celled—*Shrubs with opposite or whorled evergreen leaves, and small, often showy, regular flowers.*

## b. Stamens on the corolla.

(See Ords. lxiii. and lxiv., Gen. *Litterella*.)

49. AQUIFOLIACEÆ.—Sta. 4-5, alternate with lobes of cor.—Cal. 4-5 cleft—Fruit a berry—*Shrub with coriaceous leaves and small, greenish regular flowers.*

50. OLEACEÆ.—Sta. 2—Cor. and cal. 4 cleft, sometimes 0—Fruit a berry or samara—*Trees or shrubs, with opposite leaves and small, regular flowers.*

51. APOCYNACEÆ.—Sta. 5—Cor. and cal. 4-5 cleft—Fruit of 2 follicles—*Shrubs with opposite, entire leaves, and showy, regular flowers (purple).*

✓ 52. GENTIANACEÆ.—Sta. 4-10, alternate with lobes of cor.—Cal. 4-10 lobed—Fruit a capsule—Ovary 1-2 celled—*Herbs with opposite, entire leaves and solitary, regular, mostly showy, flowers.*

53. POLEMONIACEÆ.—Sta. 5—Cor. and cal. 5 lobed—Fruit a capsule—Ovary 3 celled—*Herbs with pinnate leaves and showy, regular flowers.*

✓ 54. CONVULVACEÆ.—Sta. 4-5—Cor. 4-5 lobed—Cal. of 5 sepals—Fruit a capsule—Ovary 2-4 celled—*Herbs (generally climbing) with alternate leaves (o. in *Cuscuta*), and mostly showy, regular flowers.*

✓ 55. SOLANACEÆ.—Sta. 4-5—Cor. and cal. 5 cleft—Fruit a berry—Ovary 2 celled—*Herbs with alternate leaves, and axillary cymes of regular flowers.*

56. SCROPHULARIACEÆ.—Sta. 4: 2 longer than others—Cor. 4-5 lobed, mostly 2 lipped—Cal. 4-5 lobed—Fruit a capsule—Ovary 2 celled—*Herbs with various leaves and irregular, generally showy, flowers.*

57. OROBANCHACEÆ.—Sta. 4: 2 longer than others—Cor. 4-5 cleft, gaping—Cal. 4-5 cleft—Ovary 1 celled—*Leafless, scaly herbs, with mostly brownish flowers.*

58. VERBENACEÆ.—Sta. 4: 2 longer than others—Cor. tubular, usually 2 lipped—Cal. tubular—Fruit a capsule of 4 nutlets—Ovary 4 celled—*A herb with opposite leaves and small, irregular flowers.*

59. LABIATÆ.—Sta. mostly 4 (rarely 2); 2 longer than others—Cor. mostly 2 lipped—Cal. 2 lipped, or 5 cleft—Fruit of 4 nutlets—Ovary 4 celled—*Herbs mostly with square stems and opposite leaves, and irregular (generally small) flowers, in whorls or cymes.*

60. BORAGINACEÆ.—Sta. 5—Cor. and cal. 5 lobed—Fruit of 4 nutlets—Ovary 4 celled—*Herbs with alternate (usually scabrous) leaves, and spikes of showy, regular flowers.*

61. LENTIBULARIACEÆ.—Sta. 2—Cor. 2 lipped—Cal. 5 part or 2 lipped—Fruit a many-seeded capsule—Ovary 1 celled—*Marsh herbs with radical, entire leaves, or multipartite, floating leaves with bladders, and irregular, rather showy, flowers.*

✓ 62. PRIMULACEÆ.—Sta. 4-7, generally opposite segments of cor.—Cor. and cal. 4-7 cleft—Fruit a many-seeded capsule—Ovary 1 celled—*Herbs with various (generally radical) leaves, and mostly showy, regular flowers.*

✓ 63. PLUMBAGINACEÆ.—Sta. 5, opposite petals, hypogynous—Cor. of 5 petals united at base—Cal. tubular, scarious—Ovary 1 celled, 1 seeded—*Herbs mostly maritime, with radical or alternate leaves, and mostly blue, regular flowers.*

✓ 64. PLANTAGINACEÆ.—Sta. 4, hypogynous in Gen. II.—Cor. 4 lobed, scarious—Cal. 4 cleft—Ovary 2-4 celled (1 celled in Gen. II.), many seeded—*Herbs with generally radical, entire leaves, and spikes of small, greenish flowers.*

(The petals are free, or apparently so, in Ord. xlvi., Genera *Pyrola* and *Monotropa*, and in Ord. lxiii.)

[Plants belonging to the orders in Division I., but which are, or appear to be, wanting in either calyx or corolla, occur in the following orders:—

- Ord. i.—Genera *Clematis*, *Thalictrum*, *Anemone*, and *Caltha*.
- Ord. vi.—Genera *Cardamine* (Sp. 4), *Senebiera* (Sp. 2), and *Lepidium* (Sp. 5).
- Ord. xiv.—Genera *Sagina* (Sp. 1), and *Cherleria*.
- Ord. xxvi.—Genera *Alchemilla* and *Poterium*.
- Ord. xxvii.—Gen. *Isnardia*.
- Ord. xxviii.—All the genera.
- Ord. xxix.—Gen. *Peplis*.
- Ord. xxxiii.—Gen. *Herniaria*.
- Ord. xxxiv.
- Ord. xxxvii.—Gen. *Chrysosplenium*.]

#### DIV. II.—PLANTS WITH EITHER COROLLA, CALYX, OR BOTH ABSENT.

##### A. Flowers with the corolla absent, mostly with stamens and pistils in same flower.

###### \* Ovary superior.

65. AMARANTHACEÆ.—Flowers 1 sexual—Sta. 3-5, opposite sep.—Fruit indehiscent—*Herbs with exstipulate leaves, and inconspicuous, green flowers.*

66. CHENOPODIACEÆ.—Flowers 1-2 sexual—Sta. mostly 5 (1 or 2 in *Salsola*), opposite sepals—Fruit indehiscent—*Herbs with exstipulate leaves, or sometimes with leafless, jointed stems, and small flowers.*

67. POLYGONACEÆ.—Flowers mostly 2 sexual—Sta. 5-8—Sep. 3-6—Fruit indehiscent, usually enclosed in the sepals—*Herbs with sheathing stipules, alternate leaves and small flowers.*

68. ELEAGNACEÆ.—Flowers 1 sexual (male flowers in catkins)—Sta. 4-8—Sep. of male fls. 3-4—Fruit indehiscent—*A shrub with silvery scales, alternate, entire, exstipulate leaves and small flowers.*

69. THYMELACEÆ.—Flowers 2 sexual—Sta. 8—Cal. 4 lobed—Fruit fleshy, indehiscent—*Shrubs, with entire, exstipulate leaves, and conspicuous, sweet-scented flowers.*

###### \* \* Ovary inferior.

70. SANTALACEÆ.—Sta. 3-5, opposite segments of calyx—Ovary 1 celled—*Parasitic herbs with entire, alternate leaves, and inconspicuous flowers.*

71. ARISTOLOCHIACEÆ.—Sta. 6-12, epigynous—Calyx 3 lobed or lipped—Ovary 4-6 celled—*Herbs, sometimes climbing, with alternate leaves.*

##### B. Plants with corolla and calyx absent, and with stamens and pistils in separate flowers. (Calyx present in Ord. lxiii., Genera *Buxus* and *Mercurialis*.)

###### a. Flowers not in catkins.

72. EMPETRACEÆ.—Dioecious—Sta. 3—Perianth of scales, but apparently of 3 pet. and 3 sep.—Ovary 3-9 celled—*Small shrub, with evergreen, alternate leaves, and inconspicuous flowers.*

73. EUPHORBIACEÆ.—Dioecious—Sta. 1 or many—Perianth 3-4 part or 0.—Fruit separating into carpels elastically—*Herbs with entire leaves, often milky juice, and small flowers sometimes enclosed in a calyx like involucre.*

74. URTICACEÆ.—Flowers 1 sexual—Sta. 4-5, opposite sepals—Fruit indehiscent—Ovary 1 celled—*Herbs with often stinging leaves, and clustered small green flowers.*

75. ULMACEÆ.—Flowers 2 sexual—Sta. 4-8—Perianth 4-8 part—Fruit a samara—Ovary 2 celled—*Trees with alternate, distichous leaves.*

*b. Flowers in catkins.*

76. CUPULIFERÆ.—Sta. 5-20—Perianth 5-6 lobed—Fruit indehiscent, 1 seeded, enclosed in a coriaceous involucre or cup—*Trees with alternate stipulate leaves and small green flowers.*

77. BETULACEÆ.—Sta. 1 or more, opposite each sepal—Fruit small, indehiscent, 2 seeded, not enclosed in a cup—*Trees or shrubs with alternate leaves and small flowers.*

78. SALICACEÆ.—Sta. 1 or more to each scale—Perianth 0—Fruit many seeded, not in a cup—*Trees with alternate, simple leaves and flowers, which mostly precede the leaves.*

79. MYRICACEÆ.—Sta. 4-8—Fruit a drupe—*A small aromatic shrub, with alternate leaves and inconspicuous flowers.*

80. CONIFERÆ.—Male flowers in deciduous catkins—Female in cones—*Shrubs or trees with rigid, evergreen, linear leaves and resinous juices.*

**Class II.—Monocotyledons.**

Plants with leaves usually with parallel veins—Parts of the flowers generally 3 or 6.

DIV. I.—PETALOIDÆ.—*Perianth petaloid (sometimes absent) coloured, not glumaceous.*

\* *Ovary inferior.*

*a. Ls. with parallel veins.*

81. ORCHIDACEÆ.—Flowers 2 sexual, irregular—Sta. 1-2, united to style—Fruit capsular—Ovary 1 celled—*Herbs mostly with tuberous roots and handsome flowers in spikes or racemes.*

82. IRIDACEÆ.—Flowers 2 sexual—Sta. 3—Perianth 6 part—Fruit capsular, 3 valved—Ovary 3 celled—*Herbs with narrow leaves and handsome flowers.*

83. AMARYLLIDACEÆ.—Flowers 2 sexual—Sta. 6—Perianth 6 part—Fruit capsular, 3 valved—Ovary 3 celled—*Herbs with bulbous roots, narrow leaves, and handsome flowers.*

88. HYDROCHARIDACEÆ.—Flowers 1 sexual—Sta. 3 or 6—Fruit a berry—Ovary 1 or 3-6 celled—*Aquatic herbs with floating or submerged leaves, and conspicuous flowers.*

*b. Ls. with netted veins.*

86. DIOSCOREACEÆ.—Fls. 1 sexual—Sta. 6—Perianth 6 part—Fruit a berry—Ovary 3 celled—*A climbing herb, with broad leaves and small flowers.*

\* \* *Ovary superior.*

✓ 84. LILIACEÆ.—Flowers 2 sexual—Sta. 6—Perianth 6 partite—Fruit a berry or capsule, mostly 3 celled—Ovary 3 celled—*Herbs with mostly narrow leaves, and showy flowers.*

85. TRILLIACEÆ.—Flowers 2 sexual—Sta. 6-10—Pet. 3-5, filiform—Sep. 3-5—Fruit a berry—*A herb with 4-5 whorled, ovate, netted-veined leaves.*

87. MELANTHACEÆ.—Flowers 2 sexual—Sta. 6—Perianth petaloid, 6 part—Fruit capsular, 3 valved—*Herbs with linear leaves.*

✓ 89. ALISMACEÆ.—Flowers 2 sexual—Sta. 6—Perianth 6 part—Fruit of many carpels—*Aquatic plants with radical, netted-veined leaves, and mostly showy (white) flowers.*

✓ 90. NAIDACEÆ.—Flowers 1-2 sexual—Perianth of scale like sepals or 0—Sta. as many as sepals—Fruit of 1-4 carpels—*Aquatic herbs with various, floating or submerged leaves, and inconspicuous flowers.*

91. LEMNACEÆ.—Sta. 1-2—Perianth 0—Minute floating plants, with green, cellular fronds, rarely flowering.

92. ARACEÆ.—Sta. indefinite—Perianth 0—Fruit a berry—Herbs with netted-veined leaves, and flowers on a spadix enclosed in a leafy sheath.

93. TYPHACEÆ.—Sta. many—Perianth 0—Fruit drupaceous—Marsh plants with ensiform leaves, and small flowers in dense, conspicuous heads.

94. RESTIACEÆ.—Sta. 2-3—Perianth 2-6 partite, colourless—Fruit capsular—Aquatic plant, with subulate leaves, and flowers in an involucrate head.

✓ 95. JUNCACEÆ.—Sta. usually 6—Perianth 6 partite; segments scarious—Fruit capsular, 3 valved—Herbs (rushes) with narrow leaves and small, brown flowers.

DIV. II.—GLUMIFERÆ.—Flowers without perianth, glumaceous.

✓ 96. CYPERACEÆ.—Flowers 1-2 sexual—Sta. 1-3—Grassy herbs, with solid stems, entire sheaths, and flowers in spikelets.

✓ 97. GRAMINEÆ.—Flowers generally 2 sexual—Sta. usually 3—Grassy herbs, with hollow stems and split sheaths.

### Class III.—Acotyledons, or Cryptogamia.

*Plants without flowers, reproduced by minute spores.*

98. FILICES.—Leafy plants, with the capsules on the edge, or under-side of the leaves.

99. LYCOPODIACEÆ.—Leafy plants, with the capsules axillary, or in the bracts of a cone.

100. MARSILEACEÆ.—A creeping plant, with slender leaves, and capsules in a globose receptacle at the base of the leaves.

101. EQUISETACEÆ.—Leafless plants, with whorled branches, with sheaths at the joints, and capsules in terminal spikes.

## ARTIFICIAL KEYS TO THE GENERA.

## ORD. I.—RANUNCULACEÆ.—(p. 2.)

## A. Flowers regular.

## \* Corolla absent.

- Sep. 4-6—St. climbing* . . . . . GEN. I. CLEMATIS.  
*Sep. 4-5, imbric.* . . . . . GEN. II. THALICTRUM.  
*Sep. 5-14, with a 3-partite involucre some distance from flower* . . . . . GEN. III. ANEMONE.  
*Sep. 5, petaloid, coloured* . . . . . GEN. VII. CALTHA.

## \* \* Corolla present.

- Pet. 5-10, scarlet—Sep. 5, petaloid* . . . . . GEN. IV. ADONIS.  
*Pet. 5—Sep. 5—Flowers spicate* . . . . . GEN. V. MYOSORUS.  
*Pet. 5—Sep. 5—Carpels in an obl. or globular head* . . . . . GEN. VI. RANUNCULUS.  
*Pet. 5-15, small, linear—Sep. 5* . . . . . GEN. VIII. TROLLIUS.  
*Pet. 5, small, tubular, bilabiate—Sep. 5, deciduous* . . . . . GEN. IX. ERANTHIS.  
*Pet. 8-10, small, tubular, bilabiate—Sep. 5, persistent* . . . . . GEN. X. HELLEBORUS.  
*Pet. 5, spurred—Sep. 5* . . . . . GEN. XI. AQUILEGIA.  
*Pet. 4—Sep. 4, caducous* . . . . . GEN. XIV. ACTÆA.

## B. Flowers irregular.

- Sep. 5, upper ones spurred—Pet. 4, 2 upper enclosed in spur* . . . . . GEN. XII. DELPHINIUM.  
*Sep. 5, upper ones hooded—Pet. 2-5, 2 upper enclosed in hood* . . . . . GEN. XIII. ACONITUM.

## ORD. II.—BERBERACEÆ.—(p. 6.)

- Pet., sep., and sta. 6* . . . . . GEN. I. BERBERIS.

## ORD. III.—NYMPHÆACEÆ.—(p. 6.)

- Sep. 4, greenish—Pet. inserted on base of ovary.* . . . . GEN. I. NYMPHÆA.  
*Sep. 5-6, yellow—Pet. inserted on receptacle.* . . . . GEN. II. NUPHAR.

## ORD. IV.—PAPAVERACEÆ.—(p. 6.)

- Fruit ovate—Stigma 4-20 rayed—Style sessile* . . . . . GEN. I. PAPAVER.  
*Fruit oblong—Stigma 5-6 rayed—Style short* . . . . . GEN. II. MECONOPSIS.  
*Fruit linear, 1-celled—Flowers small* . . . . . GEN. III. CHELIDONIUM.  
*Fruit linear, 2-celled—Flowers large* . . . . . GEN. IV. GLAUCIUM.

## ORD. V.—FUMARIACEÆ.—(p. 8.)

- Fruit round, 1-seeded* . . . . . GEN. I. FUMARIA.  
*Fruit long, many-seeded* . . . . . GEN. II. CORYDALIS.



ORD. VI.—CRUCIFERÆ.—(p. 8.)

A. Fruit a pouch.

\* Pouch 1 or 2 jointed, each 1-seeded.

- Pouch ang. of 2 1-seeded joints; upper fertile, sessile, ensiform, deciduous; lower obconic, pendulous.* . . . GEN. I. CAKILE.  
*Pouch of 2 joints; upper globose, 1-seeded, deciduous; lower abortive, stalk-like* . . . GEN. II. CRAMBE.  
*Pouch broader than long, wrinkled, notched at base and apex; 2-jointed, each 1-seeded* . . . GEN. III. CORONOPUS.  
*Pouch flat, oblong, with keeled valves, 1-celled, 1-seeded* . . GEN. IV. ISATIS.

\* \* Pouch 2 valved.

a. Laterally compressed.

- Pouch obovate, notched, with winged valves; many-seeded* . GEN. V. THLASPI.  
*Pouch triangular, cuneate, valves keeled, not winged; many-seeded* . . . GEN. VI.<sup>1</sup> CAPSELLA.  
*Pouch elliptic, entire; valves keeled; cells 2-seeded* . . . GEN. VII. HUTCHINSIA.  
*Pouch obcordate, emarginate; valves boat-shaped, keeled below, slightly winged above* . . . GEN. VIII. TEESDALIA.  
*Pouch globose, notched; valves winged; cells 1-seeded—Petals unequal* . . . GEN. IX. IBERIS.  
*Pouch ovate, notched; valves compressed, keeled; cells 1-seeded* . . . GEN. X. LEPIDIUM.

b. Pouch turgid, or dorsally compressed.

- Pouch globose, turgid; valves veined; cells many-seeded* . GEN. XI. COCHLEARIA.  
*Pouch oval, turgid; valves boat-shaped—Styles deciduous—Cells 4-seeded* . . . GEN. XII. SUBULARIA.  
*Pouch ovate; valves slightly convex; cells many-seeded* . . GEN. XIII. DRABA.  
*Pouch sub-oval; valves inflated, 1-nerved; cells many-seeded* . GEN. XIV. CAMELINA.  
*Pouch compressed, pointed—Cells 1-seeded—Pet. white* . . GEN. XV. KONIGA.  
*Pouch compressed—Cells 2-4 seeded—Pet. yellow* . . . GEN. XVI. ALYSSUM.

B. Fruit a long pod.

\* Pod neither beaked nor jointed.

a. Calyx equal at base.

- Pod lanc., compressed, tapering; valves flat, veinless, opening elastically; seed stalks winged* . . . GEN. XVII. DENTARIA.  
*Pod linear, compressed; valves veinless, opening elastically; seed stalks filiform* . . . GEN. XVIII. CARDAMINE  
*Pod linear, compressed; valves flat, with prominent, swelling veins—Seeds in 1 row (2 rows in Sp. 6.)* . . . GEN. XIX. ARABIS.  
*Pod linear, terete; valves with a prominent rib—Seeds in 1 row* . . . GEN. XX. BARBAREA.  
*Pod linear, short; valves convex, nerveless—Seeds in 2 irregular rows* . . . GEN. XXI. NASTURTIUM  
*Pod linear, terete; valves convex, with 2 veins (1-veined in Sp. 4)—Seeds in 1 row* . . . GEN. XXII. SISYMBRIUM.  
*Pod linear, quadrangular; valves with a prominent nerve—Seeds in 1 row* . . . GEN. XXIII. ERYSIMUM.

b. Calyx succate at base.

- Pod compressed, or 2-edged, with a rib on each valve—Stigma 2 lobed* . . . GEN. XXIV. CHEIRANTHUS

*Pod linear, rounded or compressed—Stigma 2 lobed, gibbous,  
or horned at back* . . . . . GEN. XXV. MATTHIOLA.

*Pod quadrangular, valves nerved—Stigma 2 lobed; lobes  
erect, ellip., obtuse* . . . . . GEN. XXVI. HESPERIS.

\* \* Pods beaked.

*Pod linear, angular—Sep. erect* . . . . . GEN. XXVII. BRASSICA.

*Pod linear, angular—Sep. spreading—Seeds in 1 row* . . . . . GEN. XXVIII. SINAPIS.

*Pod compressed—Sep. spreading—Seeds in 2 rows* . . . . . GEN. XXIX. DILOTAXIS.

\* \* \* Pods jointed.

*Pods tapering, divided into 1-seeded joints* . . . . . GEN. XXX. RAPHANUS.

#### ORD. VII.—RESEDACEÆ.—(p. 16.)

*Pet. many part.—Sep. divided* . . . . . GEN. I. RESEDA.

#### ORD. VIII.—CISTACEÆ.—(p. 16.)

*Pet. 5, deciduous—Sep. 5, 2 outer smaller* . . . . . GEN. I. HELIANTHEMUM.

#### ORD. IX.—VIOACEÆ.—(p. 16.)

*Pet. 5, unequal, lower spurred* . . . . . GEN. I. VIOLA.

#### ORD. X.—DROSERACEÆ.—(p. 18.)

*Pet., sep., and sta. 5—Ls. glandular* . . . . . GEN. I. DROSEREA.

#### ORD. XI.—POLYGALACEÆ.—(p. 18.)

*Cor. irregular—Sep. 5; 2 inner petaloid* . . . . . GEN. I. POLYGALA.

#### ORD. XII.—FRANKENIACEÆ.—(p. 18.)

*Style trifid* . . . . . GEN. I. FRANKENIA.

#### ORD. XIII.—ELATINACEÆ.—(p. 20.)

*Pet., sep., and sta. 3-4* . . . . . GEN. I. ELATINE.

#### ORD. XIV.—CARYOPHYLLACEÆ.—(p. 20.)

A. Sepals united in a tube—Sta. 10.

*Styles 2—Calyx with two opposite bracts at base* . . . . . GEN. I. DIANTHUS.

*Styles 2—Calyx without bracts at base* . . . . . GEN. II. SAPONARIA.

*Styles 3-4—Capsule 3-celled, opening at apex with 6 teeth* . . . . . GEN. III. SILENE.

*Styles 5—Petals with a scale at base* . . . . . GEN. IV. LYCHNIS.

(Without a scale in *Sp.* 6.)

B. Sepals distinct—Sta. 4-10.

\* Leaves stipuled.

*Styles 5* . . . . . GEN. VII. SPERGULA.

*Styles 3* . . . . . GEN. IX. SPERGULARIA.

\* \* Leaves not stipuled.

*Sta., pet., and sep. 4—Styles 3* . . . . . GEN. V. MÖENCHIA.

*Sta. 4-10—Pet. 4-5 (or 0), shorter than sep.—Styles 4-5* . . . . . GEN. VI. SAGINA.

*Sta. 10—Pet. entire, longer than sep.—Styles 3-5* . . . . . GEN. VIII. HONCKENYA.

*Sta. 8-10—Pet. entire, conspicuous—Sep. 5—Styles 2-3* . . . . . GEN. X. ARENARIA.

- Sta.* 3-5—*Pet.* jagged at end—*Styles* 3 . . . . . GEN. XI. HOLOSTEUM.  
*Sta.* 10—*Pet.* bifid—*Styles* 3 . . . . . GEN. XII. STELLARIA.  
*Sta.* 4-10—*Pet.* bifid—*Styles* 4-5 . . . . . GEN. XIII. CERASTIUM  
*Sta.* 10—*Pet.* entire, very minute, or 0—*Styles* 3 . . . . . GEN. XIV. CHERLERIA.

ORD. XV.—LINACEÆ.—(p. 26.)

- Pet.*, *sep.*, and *sta.* 5 . . . . . GEN. I. LINUM.  
*Pet.*, *sep.*, and *sta.* 4 . . . . . GEN. II. RADIOLA.

ORD. XVI.—MALVACEÆ.—(p. 26.)

- Involucre* of 3 distinct leaves . . . . . GEN. I. MALVA.  
*Involucre* 6-9 lobed . . . . . GEN. II. ALTHÆA.  
*Involucre* 3 lobed . . . . . GEN. III. LAVATERA.

ORD. XVII.—TILIACEÆ.—(p. 26.)

- Pet.* and *sep.* 5—*Sta.* many . . . . . GEN. I. TILIA.

ORD. XVIII.—HYPERICACEÆ.—(p. 28.)

- Pet.* and *sep.* 5—*Styles* 3-5 . . . . . GEN. I. HYPERICUM.

ORD. XIX.—ACERACEÆ.—(p. 28.)

- Pet.* and *sep.* 5—*Sta.* 8 . . . . . GEN. I. ACER.

ORD. XX.—GERANIACEÆ.—(p. 28.)

- Carpels* with a glabrous, recurved awn . . . . . GEN. I. GERANIUM.  
*Carpels* with a spiral awn, bearded inside . . . . . GEN. II. ERODIUM.

ORD. XXI.—BALSAMINACEÆ.—(p. 30.)

- Flowers* spurred . . . . . GEN. I. IMPATIENS.

ORD. XXII.—OXALIDACEÆ.—(p. 30.)

- Sta.* 10—*Styles* 5 . . . . . GEN. I. OXALIS.

ORD. XXIII.—CELASTRACEÆ.—(p. 30.)

- Fls.* umbell.—*Fruit* rose-coloured . . . . . GEN. I. EUONYMUS.

ORD. XXIV.—RHAMNACEÆ.—(p. 32.)

- Calyx* 4-5 cleft, urceolate . . . . . GEN. I. RHAMNUS.

ORD. XXV.—LEGUMINOSÆ.—(p. 32.)

A. Stamens all united—Pods continuous.

\* Leaves simple.

- Cal.* deeply 2-lipped, with bracts at base, nearly as long as  
*cor.* . . . . . GEN. II. ULEX.  
*Cal.* slightly 2-lipped, without bracts, much shorter than *cor.* . . . . . GEN. III. GENISTA.

\*\* Leaves ternate (or upper simple).

- Cal.* 2-lipped; upper lip bifid; lower trifid . . . . . GEN. I. SAROTHAMNUS  
*Cal.* 5 cleft; seg. lin. . . . . GEN. IV. ONONIS.

\* \* \* Leaves pinnate.

*Cal. inflated, 5 cleft* . . . . . GEN. V. ANTHYLLIS.

B. Upper stamen free, the rest united.

\* Leaves trifoliate—Pod continuous.

*Flowers in short racemes—Pod spiral (rarely falcate), many-seeded (1-seeded in Sp. 3)* . . . . . GEN. VI. MEDICAGO.

*Flowers in long, one-sided racemes—Pod nearly straight, 1-4 seeded* . . . . . GEN. VII. MELILOTUS.

*Flowers in short racemes—Pod slightly curved, many-seeded, longer than corolla* . . . . . GEN. VIII. TRIGONELLA

*Flowers in capitate heads—Pod short, nearly straight, 1-4 seeded—Calyx teeth unequal* . . . . . GEN. IX. TRIFOLIUM.

*Flowers umbellate—Pod nearly straight, lin., many-seeded—Calyx teeth equal* . . . . . GEN. X. LOTUS.

\* \* Leaves pinnate, with a terminal leaflet; not tendrilled.

*Pod continuous, imperfectly 2-celled; keel obtuse—Pod with the lower suture inflexed* . . . . . GEN. XI. ASTRAGALUS.

*Keel with a narrow tip—Pod with the upper suture inflexed* . . . . . GEN. XII. OXYTROPIS.

\* \* \* Leaves pinnate, with a terminal leaflet; not tendrilled—Pod jointed.

*Flowers umbellate, with a pinnate leaf at apex of pedunc.—Pod compressed, curved, many-jointed* . . . . . GEN. XIII. ORNITHOPUS.

*Flowers umbellate, without a pinnate leaf—Pod compressed, many-jointed, but scarcely contracted at joints* . . . . . GEN. XIV. ARTHROLOBIUM.

*Flowers umbellate, not bracteate—Pod of many crescent-shaped joints* . . . . . GEN. XV. HIPPOCREPIS.

*Flowers racemed—Pod flat, 1-jointed* . . . . . GEN. XVI. ONOBRYCHIS.

\* \* \* \* Leaves pinnate, without a terminal leaflet (*leaves apparently simple in Gen. XVIII., Sp. 1 and 2*); mostly tendrilled—Pod continuous.

*Leaves all pinnate, tendrilled—Style filiform, hairy all round, or bearded below* . . . . . GEN. XVII. VICIA.

*Leaves pinnate or simple, mostly tendrilled—Style flattened upwards, hairy only on upper side* . . . . . GEN. XVIII. LATHYRUS.

#### ORD. XXVI.—ROSACEÆ.—(p. 38.)

A. Petals distinct.

\* HERBS.

a. Sepals equal.

*Pet. 5—Cal. 5 cleft—Fruit of 3-12 nuts, inserted on cal. tube* . . . . . GEN. II. SPIRÆA.

*Pet. 8—Cal. 8-10 cleft—Sta. many—Fruit of many small nuts, each with a feathery awn* . . . . . GEN. IV. DRYAS.

*Pet. 5—Cal. 5 cleft—Nuts 2* . . . . . GEN. XI. AGRIMONIA.

b. Sepals with alternate, smaller segments.

*Pet. 5—Sta. many—Fruit of many small nuts, tipped with the long, persistent style, on a long, dry receptacle* . . . . . GEN. III. GEUM.

*Pet. 5, small—Sta. 5—Fruit of 5-10 small nuts on a concave, dry receptacle* . . . . . GEN. V. SIBBALDIA.

*Pet. 4-5—Sta. many—Fruit of many small nuts on a flat, dry receptacle* . . . . . GEN. VI. POTENTILLA.

- Pet. 5, smaller than sepals—Sta. many—Fruit on a conical, spongy receptacle* . . . . . GEN. VII. COMARUM.
- Pet. 5—Sta. many—Fruit of many small nuts, sunk in a fleshy, deciduous receptacle* . . . . . GEN. VIII. FRAGARIA.
- \* \* SHRUBS OR TREES.
- a. Styles many.
- Pet. 5—Fruit of many, succulent drupes, on a spongy, conical receptacle* . . . . . GEN. IX. RUBUS.
- Pet. 4-5—Fruit of many, dry nuts, enclosed in the fleshy tube of calyx* . . . . . GEN. X. ROSA.
- b. Styles 1-5.
- Pet. 5—Calyx 5 cleft, deciduous—Fruit a fleshy drupe* . . GEN. I. PRUNUS.
- Pet. 5, large—Sep. large, leafy—Fruit turbinate, the upper ends of the bony cells exposed* . . . . . GEN. XV. MESPILUS.
- Cal. segments acute—Fruit oval, concealing the 1-5 bony carpels* . . . . . GEN. XVI. CRATÆGUS.
- Fruit a drupe, with 3-5 half-exserted seeds, not cohering at centre* . . . . . GEN. XVII. COTONEASTER.
- Fruit a fleshy drupe, with 5 2-seeded cells, with cartilaginous walls* . . . . . GEN. XVIII. PYRUS.
- B. Petals 0.
- Sta. 4—Cal. 4 cleft, with 2-3 scales at base* . . . . . GEN. XII. SANGUISORBA.
- Stamens many* . . . . . GEN. XIII. POTERIUM.
- Sta. 1-4—Cal. double, 8 cleft* . . . . . GEN. XIV. ALCHEMILLA.

ORD. XXVII.—ONAGRACEÆ.—(p. 50.)

- Sta. 8—Cal. 4 cleft; segments free* . . . . . GEN. I. EPILOBIUM.
- Sta. 8—Cal. 4 cleft, combined below* . . . . . GEN. II. CENOTHERA.
- Sta. 4—Cal. 4 cleft* . . . . . GEN. III. ISNARDIA.
- Sta. 2—Pet. and sep. 2* . . . . . GEN. IV. CIRCÆA.

ORD. XXVIII.—HALORAGIACEÆ.—(p. 50.)

- Ls. entire, whorled—Sta. 1* . . . . . GEN. I. HIPPURIS.
- Ls. cut, whorled—Sta. 8* . . . . . GEN. II. MYRIOPHYLLUM.
- Ls. ent., opposite—Sta. 1* . . . . . GEN. III. CALLITRICHE.
- Ls. forked, whorled—Anthers 12-20, sessile* . . . . . GEN. IV. CERATOPHYLLUM.

ORD. XXIX.—LYTHRACEÆ.—(p. 52.)

- Cal. cylind., tubular—Style long, filiform* . . . . . GEN. I. LYTHRUM.
- Cal. campan.—Style short* . . . . . GEN. II. PEPLIS.

ORD. XXX.—TAMARISCACEÆ.—(p. 52.)

- Pet. and sep. 4-5—Styles 5* . . . . . GEN. I. TAMARIX.

ORD. XXXI.—CUCURBITACEÆ.—(p. 52.)

- Dioecious—Cor. and cal. 5 cleft—Sta. 5, in three bundles* . GEN. I. BRYONIA.

ORD. XXXII.—PORTULACACEÆ.—(p. 52.)

- Pet. 5, irregular—Sep. 2—Sta. 3* . . . . . GEN. I. MONTIA.

## ORD. XXXIII.—ILLECEBRACEÆ.—(p. 54.)

\* Capsule 1-seeded.

- Ls. opp.*—*Pet.* 0, or only like small scales . . . . . GEN. I. ILLECEBRUM.  
*Ls. alt*—*Pet. obl.*, as long as sepals . . . . . GEN. II. CORRIGIOLA.  
*Ls. opp.*—*Pet. filiform*—*Stigmas* 2, sessile . . . . . GEN. III. HERNIARIA.

\* \* Capsule many-seeded.

- Ls. opp.*, lower in fours—*Pet.* 5, emarginate . . . . . GEN. IV. POLYCARPON.

## ORD. XXXIV.—SCLERANTHACEÆ.—(p. 54.)

- Pet.* 0—*Sep.* 5—*Sta.* 10 . . . . . GEN. I. SCLERANTHUS.

## ORD. XXXV.—GROSSULARIACEÆ.—(p. 54.)

- Pet.* 4-5—*Sep.* 5—*Berry* many-seeded . . . . . GEN. I. RIBES.

## ORD. XXXVI.—CRASSULACEÆ.—(p. 54.)

- Pet.*, *sep.*, and *sta.* 3-4 . . . . . GEN. I. TILLÆA.  
*Pet.* 5, distinct (4 in *Sp.* 1)—*Sta.* 10-12 . . . . . GEN. II. SEDUM.  
*Pet.* 10-12—*Sta.* many . . . . . GEN. III. SEMPERVIVUM.  
*Pet.* 5, united at base—*Sta.* 10 . . . . . GEN. IV. COTYLEDON.

## ORD. XXXVII.—SAXIFRAGACEÆ.—(p. 56.)

- Pet.* 5—*Sta.* 10—*Caps.* 2-celled . . . . . GEN. I. SAXIFRAGA.  
*Pet.* 0—*Caps.* 1-celled . . . . . GEN. II. CHRYSOSPLENIUM.  
*Pet.* 5—*Sta.* 5—*Caps.* 1-celled . . . . . GEN. III. PARNASSIA.

## ORD. XXXVIII.—ARALIACEÆ.—(p. 58.)

- St. herbaceous*—*Corolla* monopetalous . . . . . GEN. I. ADOXA.  
*St. woody*—*Pet.* 5 . . . . . GEN. II. HEDERA.

## ORD. XXXIX.—CORNACEÆ.—(p. 60.)

- Pet.*, *sep.*, and *sta.* 4 . . . . . GEN. I. CORNUS.

## ORD. XL.—UMBELLIFERÆ.—(p. 60.)

## SEC. I.—Leaves simple.

- Ls. peltate*—*Stem* creeping . . . . . GEN. I. HYDROCOTYLE.  
*Ls. linear* or ovate—*Stem* erect . . . . . GEN. XIX. BUPLEURUM.

## SEC. II.—Leaves palmate.

- Ls. palmate*—*Fruit* round, prickly . . . . . GEN. II. SANICULA.  
*Ls. spiny*—*Umbels* dense—*Fruit* round, scaly . . . . . GEN. IV. ERYNGIUM.  
*Ls. palmate*—*Involucral bracts* large, coloured—*Fruit*  
*round, with dentate ribs* . . . . . GEN. III. ASTRANTIA.

## SEC. III.—Lower leaves pinnate or ternate.

## a. Leaves all pinnate.

- Universal and partial involucral bracts* many . . . . . GEN. XVIII. SIUM.  
*Involucral bracts* 0 . . . . . GEN. XVII. PIMPINELLA (*Sp.* 2).

## b. Upper leaves lobed or pinnfid.

- Fruit* dorsally compressed, winged; wings with a thick,  
*knotted border* . . . . . GEN. XXXII. TORDYLIUM.  
*Fruit* dorsally compressed, with even wings . . . . . GEN. XXXI. HERACLEUM.

- Fruit laterally compressed, with blunt ridges—Vittæ*  
*solitary, clavate* . . . . . GEN. XIII. SISON.
- Fruit laterally compressed, with blunt ridges—Vittæ*  
*many* . . . . . GEN. XVII. PIMPINELLA (Sp. 1).
- Fruit laterally compressed, with prominent ridges—Vittæ*  
*solitary* . . . . . GEN. XII. HELOSCIADIUM (Sp. 1).
- c. Ls. ternate, or ternately compound.
- Calyx* o—*Fruit orbicular—Carpels winged, with 3 prominent ridges—Vittæ many* . . . . . GEN. VII. SMYRNIUM.
- Calyx teeth leafy—Fruit with obscure ridges—Vittæ*  
*solitary* . . . . . GEN. VIII. CICUTA.
- Calyx* o—*Fruit with 5 prominent ridges—Vittæ solitary* . . . . . GEN. IX. APIUM.
- Calyx* o—*Fruit orbicular, with 5 slender ridges—Vittæ o* . . . . . GEN. XIV. ÆGOPODIUM.
- SEC. IV.—Leaves compound.
- A. Fruit beaked.
- Beak long* . . . . . GEN. XXXVI. SCANDIX.
- Beak slender, shorter than fruit* . . . . . GEN. XXXVII. ANTHRISCUS.
- B. Fruit narrow, linear, not beaked.
- Carpels obtusely ribbed—Vittæ 1* . . . . . GEN. XXXVIII. CHÆROPHYLLUM.
- Carpels acutely ribbed—Vittæ o* . . . . . GEN. XXXIX. MYRRHIS.
- C. Fruit prickly.
- Fruit laterally compressed, not ribbed, with straight bristles* . . . . . GEN. XXXV. TORILIS.
- Fruit laterally compressed, with prominent ribs and hooked bristles* . . . . . GEN. XXXIV. CAUCALIS.
- Fruit dorsally compressed, with prominent ridges* . . . . . GEN. XXXIII. DAUCUS.
- D. Fruit ovate or oblong; glabrous or hairy.
- \* Fruit dorsally compressed.
- a. Lateral wing contiguous.
- Pet. entire, acute—Lateral ridges near the outer edge of the wings* . . . . . GEN. XXX. PASTINACA.
- Pet. obcord.—Lateral ridges at the base of the wings* . . . . . GEN. XXIX. PEUCEDANUM.
- b. Lateral wings separate
- . . . . . GEN. XXVIII. ANGELICA.
- \* \* Fruit ovate, roundish, not compressed either way.
- a. Vittæ o.
- Fruit globose, with obscure ridges—Carpels scarcely separating* . . . . . GEN. XL. CORIANDRUM.
- b. Vittæ solitary.
- Fruit corky, with obscure ridges and a long, erect style* . . . . . GEN. XX. CENANTHE.
- Fruit globose, with acute ribs and a short style—Pet. obcordate* . . . . . GEN. XXI. ÆTHUSA.
- Fruit oblong, with prominent, obtuse ribs—Style short—Pet. entire* . . . . . GEN. XXII. FENICULUM.
- Fruit hairy, with thick ribs and long, reflexed styles* . . . . . GEN. XXIII. SESELI.
- c. Vittæ 2 or more.
- Fruit ellip., with sharp, almost winged ridges—Pet. obcord., white—Lfts. ovate* . . . . . GEN. XXIV. LIGUSTICUM.
- Fruit ellip., almost winged—Pet. emarginate, yellow, appendaged at base—Lfts. lanc.* . . . . . GEN. XXV. SILAUS.
- Fruit as Silaus—Pet. entire, ellip., with an incurved point—Lfts. capillary* . . . . . GEN. XXVI. MEUM.

*Fruit with triangular, sharp ridges—Lfts. fleshy* . . . GEN. XXVII. CRITHMUM.

\* \* \* Fruit laterally compressed.

a. Petals entire.

*Lfts. ov. or lanc.—Involucral bracts many—Fls. yellow* . . . GEN. X. PETROSELINUM.

*Lfts. linear—Involucral bracts few or o—Fls. diœious ;*

*Pet. yellow* . . . . . GEN. XI. TRINIA.

*Lfts. ov.-lanc, or submerged, capillary—Fls. white* GEN. XII. HELOSCIADIUM (Sp. 2).

b. Petals emarginate.

*Vittæ o—Style long, reflexed* . . . . . GEN. XIV. ÆGOPODIUM.

*Vittæ solitary—Base of style depressed* . . . . . GEN. XV. CARUM.

*Vittæ several—Base of style conical* . . . . . GEN. XVI. BUNIUM.

\* \* \* \* Fruit short, turgid, slightly laterally compressed.

*Carpels with 5 thick, waved ridges—Vittæ o* . . . . . GEN. V. CONIUM.

*Carpels round, with slender ridges—Vittæ solitary* . . . . . GEN. VI. PHYSOSPERMUM.

#### ORD. XLI.—LORANTHACEÆ.—(p. 66.)

*Diœious—Pet. 4, fleshy* . . . . . GEN. I. VISCUM.

#### ORD. XLII.—CAPRIFOLIACEÆ.—(p. 68.)

\* Stigmas 3, sessile.

*Leaves pinnate* . . . . . GEN. I. SAMBUCUS.

*Leaves simple* . . . . . GEN. II. VIBURNUM.

\* \* Stigma 1, filiform.

*Sta. 5—Cor. irregular* . . . . . GEN. III. LONICERA.

*Sta. 4—Cor. regular* . . . . . GEN. IV. LINNÆA.

#### ORD. XLIII.—RUBIACEÆ.—(p. 68.)

*Cal. o—Cor. rotate, 5 cleft—Fruit fleshy* . . . . . GEN. I. RUBIA.

*Cal. o—Cor. rotate, 4 cleft—Fruit dry* . . . . . GEN. II. GALIUM.

*Cal. o—Cor. bell-shaped—Fruit dry* . . . . . GEN. III. SHERARDIA.

*Calyx teeth 4-6—Cor. funnel-shaped—Fruit dry, crowned  
with calyx* . . . . . GEN. IV. ASPERULA.

#### ORD. XLIV.—VALERIANACEÆ.—(p. 70.)

*Sta. 1—Cor. spurred—Fruit crowned with feathery pappus* . . . GEN. I. CENTRANTHUS.

*Sta. 3—Cor. gibbous—Fruit crowned with feathery pappus* . . . GEN. II. VALERIANA.

*Sta. 3—Fruit crowned with unequal teeth* . . . . . GEN. III. VALERIANELLA.

#### ORD. XLV.—DIPSACEÆ.—(p. 72.)

*Receptacle with spiny scales—Calyx limb entire* . . . . . GEN. I. DIPSACUS.

*Receptacle scaly—Calyx limb of 4-5 bristles* . . . . . GEN. II. SCABIOSA.

*Receptacle hairy—Calyx limb of 8-15 bristles* . . . . . GEN. III. KNAUTIA.

#### ORD. XLVI.—COMPOSITÆ.—(p. 72.)

##### SUB-ORDER I.—FLOWERS ALL LIGULATE AND PERFECT.

\* Pappus o.

GEN. XIV. LAPSANA.



- \* \* Pappus crown-like or of erect scales.  
*Flowers terminal, yellow* . . . . . GEN. XIII. ARNOSERIS.  
*Flowers axillary, blue* . . . . . GEN. XV. CICHORIUM.  
 \* \* \* Pappus plumose, especially of the central florets.  
 a. Receptacle chaffy. . . . . GEN. V. HYPOCHERIS.  
 b. Receptacle naked.  
*Involucre simple, or of 8-10 connected scales* . . . . . GEN. I. TRAGOPOGON.  
*Involucre simple, surrounded by leafy bracts* . . . . . GEN. II. HELMINTHIA.  
*Involucre simple, with unequal, linear bracts at base* . . . . . GEN. III. PICRIS.  
*Involucre imbricate* . . . . . GEN. IV. LEONTODON.  
 \* \* \* \* Pappus pilose, filiform.  
 a. Hairs of pappus silvery (except *Crepis paludosa*).  
 † Fruit beaked.  
*Stem leafy—Fruit compressed* . . . . . GEN. VI. LACTUCA.  
*Stem leafless—Fruit suddenly contracted and muricate above* . . . . . GEN. XII. TARAXACUM.  
*Stem leafy—Fruit terete* . . . . . GEN. XI. BARKHAUSIA.  
 † † Fruit not beaked.  
*Fruit compressed* . . . . . GEN. VII. SONCHUS.  
*Fruit terete* . . . . . GEN. IX. CREPIS.  
 b. Hairs of pappus rigid, turning brown.  
*Fls. blue—Fruit compressed* . . . . . GEN. VIII. MULGEDIUM.  
*Fls. yellow—Fruit terete* . . . . . GEN. X. HIERACIUM.

SUB-ORDER II.—FLOWERS ALL TUBULAR—STYLE THICKENED BELOW ITS BRANCHES.

- \* Leaves spiny, or fringed with small prickles.  
*All the involucre bracts spinous—Fruit compressed* . . . . . GEN. XIX. CARDUUS.  
*All the involucre bracts spinous—Fruit angled, or 4-ribbed* . . . . . GEN. XX. ONOPORDIUM.  
*Outer involucre bracts spinous; inner coloured, spreading* . . . . . GEN. XXI. CARLINA.  
 \* \* Leaves not spiny.  
 a. Involucre bracts with hooked points.  
 . . . . . GEN. XVI. ARCTIUM.  
 b. Involucre bracts with straight points.  
*Pappus longer than fruit—Anthers with bristles at base* . . . . . GEN. XVII. SAUSSUREA.  
*Pappus longer than fruit—Anthers simple at base* . . . . . GEN. XVIII. SERRATULA.  
*Pappus shorter than fruit* . . . . . GEN. XXII. CENTAUREA.

SUB-ORDER III.—FLOWERS TUBULAR, OUTER OFTEN RADIANT—STYLE NOT THICKENED BELOW ITS BRANCHES.

- A. Heads with a ray of different colour to disk (except *Chrys segetum*).  
 \* Pappus o.  
*Receptacle conical, naked—Scapes 1-flowered* . . . . . GEN. XLI. BELLIS.  
*Receptacle flat or convex, naked—Involucre bracts with scarious margins* . . . . . GEN. XLII. CHRYSANTHEMUM.  
*Receptacle conical or convex—Involucre bracts without scarious margins* . . . . . GEN. XLIII. MATRICARIA.  
*Receptacle scaly* . . . . . GEN. XLIV. ANTHEMIS.

- \* \* Pappus pilose.  
*Ray florets in several rows* . . . . . GEN. XXXIV. ERIGERON.  
*Ray florets in 1 row* . . . . . GEN. XXXV. ASTER.  
 B. Heads with a ray of same colour as disk, discoid; or with the ray revolute.  
 \* Pappus of 2-5 rigid bristles. GEN. XXIII. BIDENS.  
 \* \* Pappus of broad ciliate scales. GEN. XLVI. GALINSOGA.  
 \* \* \* Pappus feathery or pilose.  
 a. Leaves all radical, appearing after flowers.  
*Heads many, racemed* . . . . . GEN. XXXII. PETASITES.  
*Heads solitary* . . . . . GEN. XXXIII. TUSSILAGO.  
 b. Stems leafy.  
 † Heads discoid—Involucral bracts herbaceous.  
*Flowers reddish purple* . . . . . GEN. XXIV. EUPATORIUM.  
*Flowers yellow—Ls. linear* . . . . . GEN. XXV. CHRYSOCOMA.  
*Flowers yellow—Ls. pinnfid.* . . . . . GEN. XXXVII. SENEIO (in part).  
 † † Heads discoid—Involucral bracts dry, scarious.  
*Receptacle flat, naked—Heads dioecious* . . . . . GEN. XXIX. ANTENNARIA.  
*Receptacle flat, naked—Heads all similar* . . . . . GEN. XXX. GNAPHALIUM.  
*Receptacle conical, scaly at margin* . . . . . GEN. XXXI. FILAGO.  
 † † † Heads radiant.  
*Involucral bracts imbricated—Anthers simple* . . . . . GEN. XXXVI. SOLIDAGO.  
*Involucral bracts in 1 row, with scales at base* . . . . . GEN. XXXVII. SENEIO.  
*Involucral bracts in 2-3 rows, equal* . . . . . GEN. XXXIX. DORONICUM.  
*Involucral bracts imbricated—Anthers with bristles at base* GEN. XL. INULA.  
 \* \* \* \* Pappus o.  
*Receptacle not scaly—Fruit angular, with a large disk* . GEN. XXVII. TANACETUM.  
*Receptacle not scaly—Fruit obovate, with a small disk* . GEN. XXVIII. ARTEMISIA.  
*Receptacle scaly—Heads rayed* . . . . . GEN. XLV. ACHILLEA.  
*Receptacle scaly—Heads discoid* . . . . . GEN. XXVI. DIOTIS.

## ORD. XLVII.—CAMPANULACEÆ.—(p. 88.)

- Corolla campan.; segments broad* . . . . . GEN. I. CAMPANULA.  
*Corolla rotate; segments linear—Anthers distinct* . . . GEN. II. PHYTEUMA.  
*Corolla rotate; segments linear—Anthers cohering at base* . GEN. III. JASIONE.  
*Corolla irregular—Anthers cohering in a tube* . . . . . GEN. IV. LOBELIA.

## ORD. XLVIII.—ERICACEÆ.—(p. 90.)

## Div. I.—Ovary inferior.

GEN. VIII. VACCINIUM.

## Div. II.—Ovary superior.

## \* Shrubs.

## a. Fruit dry.

- Corolla persistent—Calyx simple, 4 part.* . . . . . GEN. I. ERICA.  
*Corolla persistent—Calyx double* . . . . . GEN. II. CALLUNA.  
*Corolla deciduous, ventricose—Cal. 4-5 part.—Sta. 10* . . . GEN. III. MENZIESIA.  
*Corolla deciduous, campanulate—Sta. 5* . . . . . GEN. IV. LOISELEURIA.  
*Corolla deciduous, ovate—Sta. 10* . . . . . GEN. V. ANDROMEDA.

b. Fruit fleshy.

- Cells many-seeded* . . . . . GEN. VI. ARBUTUS.  
*Cells 1-seeded* . . . . . GEN. VII. ARCTOSTAPHYLOS.

\* \* Herbs.

- Calyx green—Style 5 lobed* . . . . . GEN. IX. PYROLA.  
*Calyx coloured—Style simple, peltate* . . . . . GEN. X. MONOTROPA.

ORD. XLIX.—AQUIFOLIACEÆ.—(p. 92.)

- Cor. rotate—Cal. 4-5 cleft* . . . . . GEN. I. ILEX.

ORD. L.—OLEACEÆ.—(p. 92.)

- Shrub—Fruit a fleshy berry* . . . . . GEN. I. LIGUSTRUM.  
*Tree—Fruit winged, dry* . . . . . GEN. II. FRAXINUS.

ORD. LI.—APOCYNACEÆ.—(p. 94.)

- Cor. salver-shaped; tube long—Cal. 5 partite* . . . . . GEN. I. VINCA.

ORD. LII.—GENTIANACEÆ.—(p. 94.)

A. Leaves opposite.

- Corolla salver-shaped—Style persistent* . . . . . GEN. I. GENTIANA.  
*Corolla funnel-shaped—Sta. 4—Style deciduous—Stigma 1*  
*entire* . . . . . GEN. II. CICENDIA.  
*Corolla funnel-shaped—Sta. 5—Style deciduous—Stigmas 2* . . . . . GEN. III. ERYTHRÆA.  
*Corolla rotate—Sta. 8* . . . . . GEN. IV. CHLORA.

B. Leaves alternate.

- Leaves simple, orbicular* . . . . . GEN. V. VILLARSIA.  
*Leaves trifoliate* . . . . . GEN. VI. MENYANTHES.

ORD. LIII.—POLEMONIACEÆ.—(p. 96.)

- Cor. rotate; tube short—Cal. 5 cleft* . . . . . GEN. I. POLEMONIUM.

ORD. LIV.—CONVOLVULACEÆ.—(p. 96.)

- Leafy plants* . . . . . GEN. I. CONVULVULUS.  
*Leafless parasites* . . . . . GEN. II. CUSCUTA.

ORD. LV.—SOLANACEÆ.—(p. 96.)

- Cor. funnel-shaped—Capsule 2-celled, dry, opening by a lid* . . . . . GEN. I. HYOSCYAMUS.  
*Cor. rotate; segments reflexed—Anthers opening by terminal*  
*pores* . . . . . GEN. II. SOLANUM.  
*Cor. campanulate—Anthers not opening by pores* . . . . . GEN. III. ATROPA.

ORD. LVI.—SCROPHULARIACEÆ.—(p. 98.)

A. Stamens 2.

- . . . . . GEN. II. VERONICA.

B. Stamens 4.

\* Calyx 4 cleft.

- Upper lip of cor. entire, not flattened* . . . . . GEN. III. BARTSIA.  
*Upper lip of cor. bifid, not flattened* . . . . . GEN. IV. EUPHRASIA.  
*Upper lip of cor. flattened—Calyx inflated* . . . . . GEN. V. RHINANTHUS.  
*Upper lip of cor. flattened—Calyx tubular* . . . . . GEN. VI. MELAMPYRUM.

\* \* Calyx 5 cleft.

a. Calyx inflated.

GEN. VII. PEDICULARIS.

b. Calyx tubular.

*Corolla globose* . . . . . GEN. VIII. SCROPHULARIA.

*Corolla bell-shaped, unequal* . . . . . GEN. IX. DIGITALIS.

*Corolla personate, gibbous at base, not spurred* . . . . . GEN. X. ANTIRRHINUM.

*Corolla personate, spurred at base* . . . . . GEN. XI. LINARIA.

*Corolla campanulate, 5 cleft, equal* . . . . . GEN. XII. LIMOSELLA.

*Cor. rotate, equal* . . . . . GEN. XIII. SIBTHORPIA.

*Cor. ringent, upper lip with reflexed sides* . . . . . GEN. XIV. MIMULUS.

C. Stamens 5.

*Corolla rotate* . . . . . GEN. I. VERBASCUM.

#### ORD. LVII.—OROBANCHACEÆ.—(p. 102.)

*Cor. 4-5 cleft—Sep. 2* . . . . . GEN. I. OROBANCHE.

*Cor. 2-lipped—Cal. 4 cleft* . . . . . GEN. II. LATHRÆA.

#### ORD. LVIII.—VERBENACEÆ.—(p. 104.)

*Cor. irregular—Cal. 5 part.* . . . . . GEN. I. VERBENA.

#### ORD. LIX.—LABIATÆ.—(p. 104.)

A. Stamens 2.

*Corolla and calyx 2-lipped* . . . . . GEN. I. SALVIA.

*Corolla equally 4 cleft—Cal. 5 cleft* . . . . . GEN. II. LYCOPUS.

B. Sta. 4, almost equal.

*Corolla 4-5 cleft, nearly equal* . . . . . GEN. III. MENTHA.

*Corolla 2-lipped—Flowers capitate or in whorls* . . . . . GEN. IV. THYMUS.

*Corolla 2-lipped—Flowers in terminal heads* . . . . . GEN. V. ORIGANUM.

C. Stamens 4, didynamous.

\* Upper lip of corolla minute or o.

*Upper lip of cor. deeply cleft.* . . . . . GEN. IX. TEUCRIUM.

*Upper lip of cor. entire, or slightly notched* . . . . . GEN. X. AJUGA.

\* \* Upper lip of corolla longer than the stamens.

a. Calyx obviously 2-lipped.

† Stamens remote at base, conniving under the upper lip.

*Upper lip of cor. flat; its tube straight* . . . . . GEN. VI. CALAMINTHA.

*Upper lip of cor. concave; its tube curved* . . . . . GEN. VII. MELISSA.

† † Stamens parallel.

*Calyx campanulate, open in fruit* . . . . . GEN. VIII. MELITTIS.

*Calyx ovate, close in fruit; upper lip trifid, lower bifid* . . . . . GEN. XVIII. PRUNELLA.

*Calyx ovate, closed in fruit; lips entire* . . . . . GEN. XIX. SCUTELLARIA.

b. Calyx 5-toothed.

† Lower stamens the longest.

*Calyx 10-ribbed, funnel-shaped—Lower lip of cor. trifid; middle segment largest* . . . . . GEN. XI. BALLOTA.

*Calyx tubular—Upper lip of corolla flat; lower with 3 blunt lobes* . . . . . GEN. XII. LEONURUS.

*Calyx 10-ribbed, campanulate—Lower lip of cor. entire, with 1 or 2 small teeth on each side* . . . . . GEN. XIII. LAMIUM.

- Calyx campanulate*—Lower lip of corolla with 3 unequal lobes and 2 teeth on its upper side . . . . . GEN. XIV. GALEOPSIS.  
*Calyx bell-shaped, 10-ribbed*—Lower lip of corolla with the lateral lobes reflexed. . . . . GEN. XV. STACHYS.  
     † † Two upper stamens the longest. . . . . GEN. XVI. NEPETA.  
     c. Calyx 10-toothed.  
*Two lower stamens the longest* . . . . . GEN. XVII. MARRUBIUM.

ORD. LX.—BORAGINACEÆ.—(p. 110.)

A. Throat of corolla naked.

- Cor. irregular* . . . . . GEN. XI. ECHIUM.  
*Cor. regular*—Cal. tubular, 5-fid—Sta. included . . . . . GEN. X. PULMONARIA.  
*Cor. regular*—Cal. short, in 5 deep segments—Sta. included . . . . . GEN. II. LITHOSPERMUM.  
*Cor. regular*—Sta. protruded . . . . . GEN. III. MERTENSIA.

B. Throat of the corolla closed with scales.

\* Stamens included.

a. Nuts attached to a disk below style.

- Cor. salver-shaped, twisted in æstivation*. . . . . GEN. I. MYOSOTIS.  
*Cor. funnel-shaped; its tube straight*. . . . . GEN. VII. ANCHUSA.  
*Cor. funnel-shaped; its tube curved* . . . . . GEN. VI. LYCOPSIS.  
*Cor. campanulate; its tube short, straight* . . . . . GEN. IV. SYMPHYTUM.

b. Nuts attached to the elevated, persistent base of style.

- Cal. 5 cleft, with intermediate teeth* . . . . . GEN. VIII. ASPERUGO.  
*Cal. equally 5 cleft*. . . . . GEN. IX. CYNOGLOSSUM.

\*\* Stamens exserted.

- Corolla rotate* . . . . . GEN. V. BORAGO.

ORD. LXI.—LENTIBULARIACEÆ.—(p. 112.)

- Terrestrial—Leaves entire* . . . . . GEN. I. PINGUICULA.  
*Aquatic—Leaves multifid* . . . . . GEN. II. UTRICULARIA.

ORD. LXII.—PRIMULACEÆ.—(p. 114.)

- Leaves all radical—Cor. salver-shaped, with spreading lobes* . . . . . GEN. I. PRIMULA.  
*Leaves all radical—Limb of corolla reflexed* . . . . . GEN. II. CYCLAMEN.  
*Corolla rotate—Calyx 7 partite* . . . . . GEN. III. TRIENTALIS.  
*Aquatic—Leaves pectinate—Cor. salver-shaped*. . . . . GEN. IV. HOTTONIA.  
*Cor. rotate, yellow—Cal. 5 partite—Capsule opening at summit* . . . . . GEN. V. LYSIMACHIA.  
*Cor. rotate; tube 0—Calyx 5 part.—Sta. hairy—Capsule opening transversely*. . . . . GEN. VI. ANAGALLIS.  
*Cor. with a sub-globose tube—Calyx 4 partite—Capsule opening transversely*. . . . . GEN. VII. CENTUNCULUS.  
*Cor. salver-shaped, tube short—Cal. 5 part.—Capsule half inferior opening with reflexed teeth* . . . . . GEN. VIII. SAMOLUS.  
*Cor. 0—Calyx tubular, coloured* . . . . . GEN. IX. GLAUX.

ORD. LXIII. PLUMBAGINACEÆ.—(p. 116.)

- Flowers capitate* . . . . . GEN. I. ARMERIA.  
*Flowers paniced* . . . . . GEN. II. STATICE.

## ORD. LXIV.—PLANTAGINACEÆ.—(p. 118.)

- Flowers in spikes (perfect)* . . . . . GEN. I. PLANTAGO.  
*Flowers solitary (monœcious)* . . . . . GEN. II. LITTORELLA

## ORD. LXV.—AMARANTHACEÆ.—(p. 118.)

- Monœcious—Perianth 3-5 partite* . . . . . GEN. I. AMARANTHUS.

## ORD. LXVI.—CHENOPODIACEÆ.—(p. 118.)

A. Flowers perfect.

\* St. not jointed.

† Leaves flat.

- Pericarp free* . . . . . GEN. I. CHENOPODIUM.  
*Pericarp adhering to perianth* . . . . . GEN. IV. BETA.

† † Leaves semi-cylindrical.

- Leaves spinous* . . . . . GEN. V. SALSOLA.  
*Leaves not spinous* . . . . . GEN. VI. SUÆDA.

\* \* Stem jointed.

. . . . . GEN. VII. SALICORNIA.

B. Flowers imperfect, monœcious.

- Pericarp free* . . . . . GEN. III. ATRIPLEX.  
*Pericarp adhering to perianth* . . . . . GEN. II. OBIONE.

## ORD. LXVII.—POLYGONACEÆ.—(p. 122.)

- Perianth 5 part.; segments equal* . . . . . GEN. I. POLYGONUM.  
*Perianth 6 part.; 3 inner segments large* . . . . . GEN. II. RUMEX.  
*Perianth 4 part.; 2 inner segments large* . . . . . GEN. III. OXYRIA.

## ORD. LXVIII.—ELEAGNACEÆ.—(p. 124.)

- Diœcious—Perianth of 2 leaves adhering at apex* . . . . . GEN. I. HIPPOPHAE.

## ORD. LXIX.—THYMELACEÆ.—(p. 124.)

- Perianth 4 part., deciduous—Sta. 8* . . . . . GEN. I. DAPHNE.

## ORD. LXX.—SANTALACEÆ.—(p. 124.)

- Cor. funnel-shaped—Sta. 5* . . . . . GEN. I. THESIMUM.

## ORD. LXXI.—ARISTOLOCHIACEÆ.—(p. 124.)

- A low herb—Sta. 12* . . . . . GEN. I. ASARUM.  
*Climbing—Sta. 6* . . . . . GEN. II. ARISTOLOCHIA.

## ORD. LXXII.—EMPETRACEÆ.—(p. 126.)

- Pet. 3 part.—Cal. 3 part.—Sta. 3* . . . . . GEN. I. EMPETRUM.

## ORD. LXXIII.—EUPHORBIACEÆ.—(p. 126.)

- Stamens many, with 1 pistil enclosed in a calyx-like bract* . GEN. I. EUPHORBIA.  
*Evergreen shrub—Pet. and sep. present—Sta. 4* . . . . . GEN. II. BUXUS.  
*Perianth 3 partite—Fertile and barren fls. separate* . . . . . GEN. III. MERCURIALIS.

ORD. LXXIV.—URTICACEÆ.—(p. 128.)

- Sta. 4—Flowers (monœcious or diœcious) in racemes* . . . GEN. I. URTICA.  
*Sta. 4—Flowers (polygamous) in axillary clusters, sur-  
 rounded by involucre.* . . . GEN. II. PARIETARIA.  
*Sta. 5—Climbing—Flowers (diœcious) in a catkin.* . . . GEN. III. HUMULUS.

ORD. LXXV.—ULMACEÆ.—(p. 128.)

- Perianth 4-5 part.—Sta. 5* . . . GEN. I. ULMUS.

ORD. LXXVI.—CUPULIFERÆ.—(p. 128.)

- A. Barren flowers in a globose catkin.  
 . . . GEN. II. FAGUS.  
 B. Barren flowers in a long catkin.  
 \* Stig. 3. . . . . GEN. I. QUERCUS.  
 \* \* Stig. 2.

- Scales of barren catkin roundish* . . . GEN. IV. CORYLUS.  
*Scales of barren catkin 3 cleft* . . . GEN. III. CARPINUS.

ORD. LXXVII.—BETULACEÆ.—(p. 130.)

- Sta. 4—Achenes not winged* . . . GEN. I. ALNUS.  
*Sta. 8-12—Achenes winged* . . . GEN. II. BETULA.

ORD. LXXVIII.—SALICACEÆ.—(p. 130.)

- Sta. 4-30—Scales of catkin jagged* . . . GEN. I. POPULUS.  
*Sta. 1-5—Scales of catkin entire* . . . GEN. II. SALIX.

ORD. LXXIX.—MYRICACEÆ.—(p. 134.)

- Sta. 4-8—Scales of catkin concave—Fr. drupaceous* . . . GEN. I. MYRICA.

ORD. LXXX.—CONIFERÆ.—(p. 134.)

- Fruit a dry, many-seeded cone* . . . GEN. I. PINUS.  
*Fruit a fleshy, few-seeded cone* . . . GEN. II. JUNIPERUS.  
*Fruit a fleshy, cup-shaped, 1-seeded berry* . . . GEN. III. TAXUS.

ORD. LXXXI.—ORCHIDACEÆ.—(p. 134.)

A. Leafless.

- Flowers greyish brown—Spur 0* . . . GEN. III. NEOTTIA.  
*Flowers pink or purplish—Spur small* . . . GEN. XIII. NEOTINEA.  
*Flowers pale yellow—Spur inflated* . . . GEN. VII. EPIPOGIUM.  
*Flowers yellowish green; lip white, with purple blotches—  
 Spur 0* . . . GEN. VIII. CORALLORHIZA.

B. Plant leafy.

\* Anthers 2.

- Lip slipper-shaped.* . . . GEN. XVIII. CYPRIPEDIUM

\* \* Anther 1.

a. Lip spurred.

- Pollen glands in a pouch.* . . . GEN. IX. ORCHIS.

- Pollen glands free, contiguous—Flowers rose* . . . . . GEN. X. GYMNADENIA.  
*Pollen glands free, distant—Flowers white* . . . . . GEN. XI. HABENARIA.  
     *b. Lip not spurred.*  
     † Lip entire at apex.  
*Lip inferior, saccate at base, free from column—2 lateral*  
     *sepals herbaceous, spreading* . . . . . GEN. I. GOODYERA.  
*Lip inferior, with fleshy projections at base—2 lateral*  
     *sepals, coloured, erect* . . . . . GEN. II. SPIRANTHES.  
*Lip superior* . . . . . GEN. XVI. MALAXIS.  
*Lip inferior—Pet. and sep. spreading* . . . . . GEN. XVII. LIPARIS.  
     † † Lip lobed or notched at apex.  
     § Lip divided transversely.  
*Flowers drooping; ovary straight* . . . . . GEN. V. EPIPACTIS.  
*Flowers erect; ovary twisted* . . . . . GEN. VI. CEPHALANTHERA.  
     § § Lip not divided transversely.  
*Pet. and sep. spreading; lip linear, 2 lobed at apex—Pollen*  
     *glands glandular.* . . . . GEN. IV. LISTERA.  
*Pet. and sep. forming a hood; lip 3 lobed—Pollen glands in*  
     *a common pouch* . . . . . GEN. XII. ACERAS.  
*Pet. and sep. spreading; lip petaloid—Pollen glands naked.* GEN. XIV. HERMINIUM.  
*Pet. and sep. spreading; lip variously lobed, mostly tumid—*  
     *Pollen glands in 2 distinct pouches* . . . . . GEN. XV. OPHRYS.

## ORD. LXXXII.—IRIDACEÆ.—(p. 138.)

## A. Segments of perianth unequal.

- Alternate segments of perianth reflexed* . . . . . GEN. I. IRIS.  
*Perianth almost labiate* . . . . . GEN. II. GLADIOLUS.

## B. Segments of perianth equal.

- Perianth tube short—Styles 3, filiform, entire* . . . . . GEN. III. SISYRINCHIUM.  
*Perianth tube short—Styles 3, bifid; lobes slender.* . . . . GEN. IV. TRICHONEMA.  
*Perianth tube long* . . . . . GEN. V. CROCUS.

## ORD. LXXXIII.—AMARYLLIDACEÆ.—(p. 140.)

- Perianth with a bell-shaped crown within* . . . . . GEN. I. NARCISSUS.  
*Perianth without a crown; segments unequal.* . . . . . GEN. II. GALANTHIS.  
*Perianth without a crown; segments equal.* . . . . . GEN. III. LEUCOJUM.

## ORD. LXXXIV.—LILIACEÆ.—(p. 140.)

## A. Fruit dry.

## \* Stems leafy.

- Flowers drooping, paniced, flesh-coloured, with purple spots* GEN. I. LILIUM.  
*Flowers erect, solitary, yellow* . . . . . GEN. II. TULIPA.  
*Flowers drooping, solitary, large, dull red, chequered* . . . . GEN. III. FRITILLARIA.  
*Flowers erect, solitary, white, veined with purple* . . . . . GEN. X. LLOYDIA.

## \* \* Flowers on a leafless scape.

## a. Segments of perianth free.

## † Flowers capitate or umbellate.

- Fls. enclosed in a 1-2 leaved spathe* . . . . . GEN. IV. ALLIUM.  
*Fls. (yellow) enclosed in 1-2 linear leaves* . . . . . GEN. V. GAGEA.



† † Flowers racemed or paniced.

*Fls. white* . . . . . GEN. VI. ORNITHOGALLUM.

*Fls. blue or pink* . . . . . GEN. VII. SCILLA.

*Fls. jointed on their pedicels; white inside, purple without* . GEN. XI. SIMETHIS.

b. Segments of perianth cohering at base.

*Peri. campanulate, reflexed at tips* . . . . . GEN. VIII. HYACINTHUS.

*Peri. globose, contracted at mouth.* . . . . GEN. IX. MUSCARI.

B. Fruit a succulent berry.

\* Stem branched.

*St. herbaceous—Flowers axillary* . . . . . GEN. XII. ASPARAGUS.

*St. shrubby, with spinous ls. and fls. (apparently) on  
centre of leaf* . . . . . GEN. XIII. RUSCUS.

\*\* Stem simple.

*St. with 2 leaves—Peri. 4 partite* . . . . . GEN. XIV. MAIANTHEMUM.

*St. leafless—Peri. bell-shaped* . . . . . GEN. XV. CONVALLARIA.

*St. many-leaved—Peri. cylindrical* . . . . . GEN. XVI. POLYGONATUM.

ORD. LXXXV.—TRILLIACEÆ.—(p. 144.)

*Peri. in 2 whorls; outer herbaceous, inner coloured* . . . GEN. I. PARIS.

ORD. LXXXVI.—DIOSCOREACEÆ.—(p. 144.)

*Diœious—Perianth bell-shaped* . . . . . GEN. I. TAMUS.

ORD. LXXXVII.—MELANTHIACEÆ.—(p. 144.)

*Peri. tubular, very long—Scape leafless* . . . . . GEN. I. COLCHICUM.

*Peri. 6 partite—Scape leafy.* . . . . . GEN. II. TOFIELDIA.

ORD. LXXXVIII.—HYDROCHARIDACEÆ.—(p. 146.)

*Leaves reniform, floating* . . . . . GEN. I. HYDROCHARIS.

*Leaves linear, submerged* . . . . . GEN. II. ELODEA.

*Leaves ensiform, submerged* . . . . . GEN. III. STRATIOTES.

ORD. LXXXIX.—ALISMACEÆ.—(p. 146.)

\* Leaves flat—Flowers large.

*Sta. 6—Carpels many, free* . . . . . GEN. I. ALISMA.

*Sta. 6—Carpels connate at base, spreading in a stellate  
manner* . . . . . GEN. II. ACTINOCARPUS.

*Sta. many—Carpels free—Ls. arrow-shaped* . . . . . GEN. III. SAGITTARIA.

\*\* Leaves triquetrous.

*Fls. rose red* . . . . . GEN. IV. BUTOMUS.

\*\*\* Leaves linear.

*Segs. of perianth erect* . . . . . GEN. V. TRIGLOCHIN.

*Segs. of perianth reflexed* . . . . . GEN. VI. SCHEUCHZERIA.

ORD. XC.—NAIADACEÆ.—(p. 148.)

\* Flowers perfect.

*Peri. segments 4* . . . . . GEN. I. POTAMOGETON.

*Peri. 0* . . . . . GEN. II. RUPPIA.

\* \* Flowers imperfect.

- Fls. axill., sol.*—*Stigma* 1, *peltate*. . . . . GEN. III. ZANNICHELLIA  
*Fls. (apparently) in a slit in the leaf* . . . . . GEN. IV. ZOSTERA.  
*Fls. axillary, solitary*—*Stigmas* 2-4, *persistent* . . . . . GEN. V. NAIAS.

ORD. XCI.—LEMNACEÆ.—(p. 150.)

- Frond with hair-like roots* . . . . . GEN. I. LEMNA.  
*Frond rootless* . . . . . GEN. II. WOLFFIA.

ORD. XCII.—ARACEÆ.—(p. 150.)

- Leaves hastate* . . . . . GEN. I. ARUM.  
*Leaves ensiform* . . . . . GEN. II. ACORUS.

ORD. XCIII.—TYPHACEÆ.—(p. 152.)

- Fls. in globular heads* . . . . . GEN. I. SPARGANIUM.  
*Fls. in dense, cylindrical spikes*. . . . . GEN. II. TYPHA.

ORD. XCIV.—RESTIACEÆ.—(p. 152.)

- Peri. 4-6 part., inner segments united to summit* . . . . . GEN. I. ERIOCAULON.

ORD. XCV.—JUNCACEÆ.—(p. 152.)

- Peri. coloured (yellow)* . . . . . GEN. I. NARTHECIUM.  
*Peri. glumaceous*—*Capsule* 3-celled, *many-seeded* . . . . . GEN. II. JUNCUS.  
*Peri. glumaceous*—*Capsule* 1-celled, *3-seeded* . . . . . GEN. III. LUZULA.

ORD. XCVI.—CYPERACEÆ.—(p. 154.)

A. Flowers perfect.

\* Glumes 2 ranked.

- Spikelets many-flowered*—*Glumes all fertile* . . . . . GEN. I. CYPERUS.  
*Spikelets few-flowered*—*Lower glume barren* . . . . . GEN. III. SCHÆNUS.

\* \* Glumes imbricated.

a. Bristles 0.

- Spikelets in many, crowded, compound cymes*—*Lower glumes smaller, empty* . . . . . GEN. II. CLADIUM.  
*Spikelets 1-3, terminal, or collected into globular heads*—  
*Lower glume equal to upper* . . . . . GEN. VII. ISOLEPIS

b. Bristles included in glumes.

- Spikelets in an ovate head, enclosed in a leafy bract* . . . . . GEN. IV. RHYNCOSPORA.  
*Spikelets alternate, forming a bracteate spike* . . . . . GEN. V. BLYSMUS.  
*Spikelet 1, terminal* . . . . . GEN. VIII. ELEOCHARIS.  
*Spikelets fascicled, lateral* . . . . . GEN. VI. SCIRPUS.

c. Bristles much longer than glumes.

- Bristles at length silky* . . . . . GEN. IX. ERIOPHORUM.

B. Flowers imperfect.

- Fruit not enclosed in the perigone* . . . . . GEN. X. KOBRESIA  
*Fruit enclosed in the perigone* . . . . . GEN. XI. CAREX.

ORD. XCVII.—GRAMINEÆ.—(p. 164.)

SECTION I.—SPIKELETS STALKED, FREE OF THE RACHIS; MOSTLY IN AN OPEN PANICLE, SOMETIMES IN A CYLINDRICAL SPIKE.

A. Spikelets with 2 or more perfect florets.

\* Florets awned.

† Lower paleæ bifid.

- Glumes equalling lower floret—Awn geniculate* . . . . GEN. XXII. AIRA.  
*Glumes equalling lower floret—Awn twisted* . . . . GEN. XXIV. AVENA.  
*Glumes shorter than lower floret—Awn straight* . . . . GEN. XXXIX. BROMUS.  
 † † Lower palea entire.  
*Spikelets enveloped in silky hairs—Fruit free of palea* . . GEN. XIX. ARUNDO.  
*Spikelets in an interrupted spike—Fruit free of palea* . . GEN. XXVIII. KOELERIA.  
*Spikelets crowded, subsecund—Fruit free of palea* . . . GEN. XXXVII. DACTYLIS.  
*Spikelets mostly in a 1-sided panicle—Fruit adhering to palea* . . . . . GEN. XXXVIII. FESTUCA.

\*\* Florets not awned.

a. Spikelets with an apparent involucre.

- Spikelets with a pectinate bract at base* . . . . . GEN. XXXVI. CYNOSURUS  
*Spikelets with a ciliate bract at base* . . . . . GEN. XXI. SESLERIA.

b. Spikelets without an apparent involucre.

† Fruit adhering to palea.

- Glumes boat-shaped, saccate, obtuse* . . . . . GEN. XXXV. BRIZA.

† † Fruit not adhering to palea.

- Glumes unequal, acute, as long as the lower palea—Lower palea emarginate, with an intermediate tooth* . . . GEN. XXVII. TRIODIA.  
*Glumes equal, veined, nearly as long as the ovate spikelet—Spikelets of 2 perfect florets and a club-like rudiment* . GEN. XXIX. MELICA.  
*Glumes unequal, not veined, shorter than the lanc. spikelet—Palea hardening on the fruit* . . . . . GEN. XXX. MOLINIA.  
*Glumes and outer paleæ eroso-truncate* . . . . . GEN. XXXI. CATABROSA.  
*Glumes obtuse, unequal—Lower palea with 5-7 prominent, parallel veins; convex, obtuse.* . . . . . GEN. XXXII. GLYCERIA  
*Glumes acute, unequal—Outer palea with 5 obscure, parallel veins; cylindrical below* . . . . . GEN. XXXIII. SCLEROCHLOA.  
*Glumes acute, unequal—Outer palea with 3-5 parallel veins, compressed, keeled* . . . . . GEN. XXXIV. POA.

B. Spikelets with 1 perfect floret and 1 or more rudimentary or neuter ones.

\* Spikelets in a dense spike.

- Spike cylindrical—Paleæ with hairs at base.* . . . . GEN. XVIII. AMMOPHILA.  
*Spike ovate—Outer palea bifid, long-awned.* . . . . GEN. XXIII. LAGURUS.  
*Spike ovate—Glu. equal, boat-shaped, keeled* . . . . GEN. VII. PHALARIS (Sp. 2).  
*Spike cylindrical, interrupted below—Paleæ with an involucre of bristles* . . . . . GEN. VI. SETARIA.

\*\* Spikelets in an interrupted, spike-like panicle.

- Sta. 2—Glu. unequal.* . . . . . GEN. VIII. ANTHOXANTHUM.  
*Sta. 3—Glu. equal, boat-shaped, keeled* . . . . . GEN. VII. PHALARIS (Sp. 1).

\*\*\* Spikelets in an open panicle.

- Upper floret with sta. only, awned; lower perfect, unawned* GEN. XXVI. HOLCUS.

- Upper floret perfect, with short, straight awn; lower barren, with long awn* . . . . . GEN. XXV. *ARRHENATHERUM*.  
*Upper floret perfect; 2 lower with sta. only, all unawned* . . . . . GEN. IX. *HIEROCHLOE*.  
     *C. Spikelets with 1 perfect floret and no rudimentary or barren ones.*  
         \* Spikelets in a dense, cylindrical spike.  
*Paleæ awned* . . . . . GEN. XI. *ALOPECURUS*.  
*Paleæ unawned* . . . . . GEN. X. *PHLEUM*.  
         \*\* Spikelets in a spike-like panicle.  
*Glumes acute, united and swollen at base* . . . . . GEN. XIII. *GASTRIDIMUM*.  
*Glumes emarginate, with a long slender awn* . . . . . GEN. XIV. *POLYPOGON*.  
*Paleæ surrounded by silky hairs* . . . . . GEN. XX. *CALAMAGROSTIS* (Sp. 1).  
         \*\*\* Spikelets in a lax panicle.  
*Glumes 0* . . . . . GEN. I. *LEERSIA*.  
*Glumes equal—Paleæ unawned* . . . . . GEN. XV. *MILIUM*.  
*Glumes unequal; lower the smaller—Outer paleæ awned* . . . . . GEN. XVI. *APERAS*.  
*Glumes unequal; upper the smaller; outer paleæ unawned* . . . . . GEN. XVII. *AGROSTIS*.  
*Glumes equal—Paleæ surrounded by silky hairs* . . . . . GEN. XX. *CALAMAGROSTIS*.

SECTION II.—SPIKELETS SESSILE, ON A TOOTHED OR JOINTED RACHIS IN A TRUE SPIKE.

A. Spike compound.

- Spikes upright* . . . . . GEN. II. *SPARTINA*.  
*Spikes spreading—Spikelets laterally compressed—Glumes equal* . . . . . GEN. III. *CYNODON*.  
*Spikes spreading—Spikelets dorsally compressed—Glumes unequal* . . . . . GEN. IV. *DIGITARIA*.  
*Spikes spreading—Spikelets dorsally compressed, with bristles at base—Glumes unequal* . . . . . GEN. V. *PANICUM*.

B. Spike simple.

- Spikelets sol., unilat., 1-flowered—Paleæ scariose, shaggy, truncate* . . . . . GEN. XII. *KNAPPIA*.  
*Spikelets sol., sub-sess., broadside to rachis—Glume unequal, smaller than the outer paleæ* . . . . . GEN. XL. *BRACHYPODIUM*.  
*Spikelets sol., broadside to rachis, many-flowered—Glumes equal* . . . . . GEN. XLI. *TRITICUM*.  
*Spikelets sol., edgewise to rachis, many-flowered—Glume 1, or inner smaller* . . . . . GEN. XLII. *LOLIUM*.  
*Spikelets 2 or 3 together, 2-7 flowered* . . . . . GEN. XLIII. *ELYMUS*.  
*Spikelets in threes, 1-flowered—Paleæ with long awns* . . . . . GEN. XLIV. *HORDEUM*.  
*Spikelets sol., in a 2-rowed, unilateral spike—Glumes 0* . . . . . GEN. XLV. *NARDUS*.  
*Spikelets sol., bilateral, 1-flowered—Glumes cartilaginous* . . . . . GEN. XLVI. *LEPTURUS*.

ORD. XCVIII.—FILICES.

SECTION I.—SPORE CLUSTERS ON BACK OF FROND.

A. Clusters with an indusium.

\* Clusters dorsal, roundish.

- Indusia laciniate, attached beneath the sori* . . . . . GEN. III. *WOODSIA*.  
*Indusia hooded, attached by their base* . . . . . GEN. VI. *CYSTOPTERIS*.  
*Indusia circular, attached by their centre* . . . . . GEN. VII. *POLYSTICHUM*

- Indusia reniform, attached by their sides* . . . . . GEN. VIII. LASTRÆA.  
*Indusia "crescentic, attached across the vein by their inner edge" (Newm.)* . . . . . GEN. IX. PSEUDATHYRIUM.

\* \* Clusters dorsal, linear.

- Clusters single—Margins of indusium laciniate* . . . . . GEN. X. ATHYRIUM.  
*Clusters single—Margins of indusium entire* . . . . . GEN. XI. ASPLENIUM.  
*Clusters double, parallel* . . . . . GEN. XII. SCOLOPENDRIUM.

\* \* \* Clusters marginal—Indusium apparently consisting of the reflexed margin of the frond.

- Fronds all similar—Clusters short, oblong* . . . . . GEN. XV. ADIANTUM.  
*Fronds all similar—Clusters continuous* . . . . . GEN. XIV. PTERIS.  
*Fertile fronds dissimilar—Clusters oblong* . . . . . GEN. V. ALLOSORUS.  
*Fertile fronds dissimilar—Clusters continuous* . . . . . GEN. XIII. BLECHNUM.

B. Clusters without an indusium.

- Clusters linear, covered with chaffy scales* . . . . . GEN. I. CETERACH.  
*Clusters round* . . . . . GEN. IV. POLYPODIUM.  
*Clusters linear* . . . . . GEN. II. GYMNOGRAMMA.

## SECTION II.—SPORE CLUSTERS AT MARGIN OF FROND, TERMINATING A SINUS.

- Indusium cup-shaped* . . . . . GEN. XVI. TRICHOMANES.  
*Indusium 2-valved.* . . . . GEN. XVII. HYMENOPHYLLUM.

## SECTION III.—SPORE CLUSTERS IN SPIKES.

- Ls. bipinn., fertile at top.* . . . . GEN. XVIII. OSMUNDA.  
*Ls. entire; spikes panicled* . . . . . GEN. XIX. BOTRYCHIUM.  
*Ls. entire; spikes simple.* . . . . GEN. XX. OPHIOGLOSSUM.

## ORD. XCIX.—LYCOPODIACEÆ.

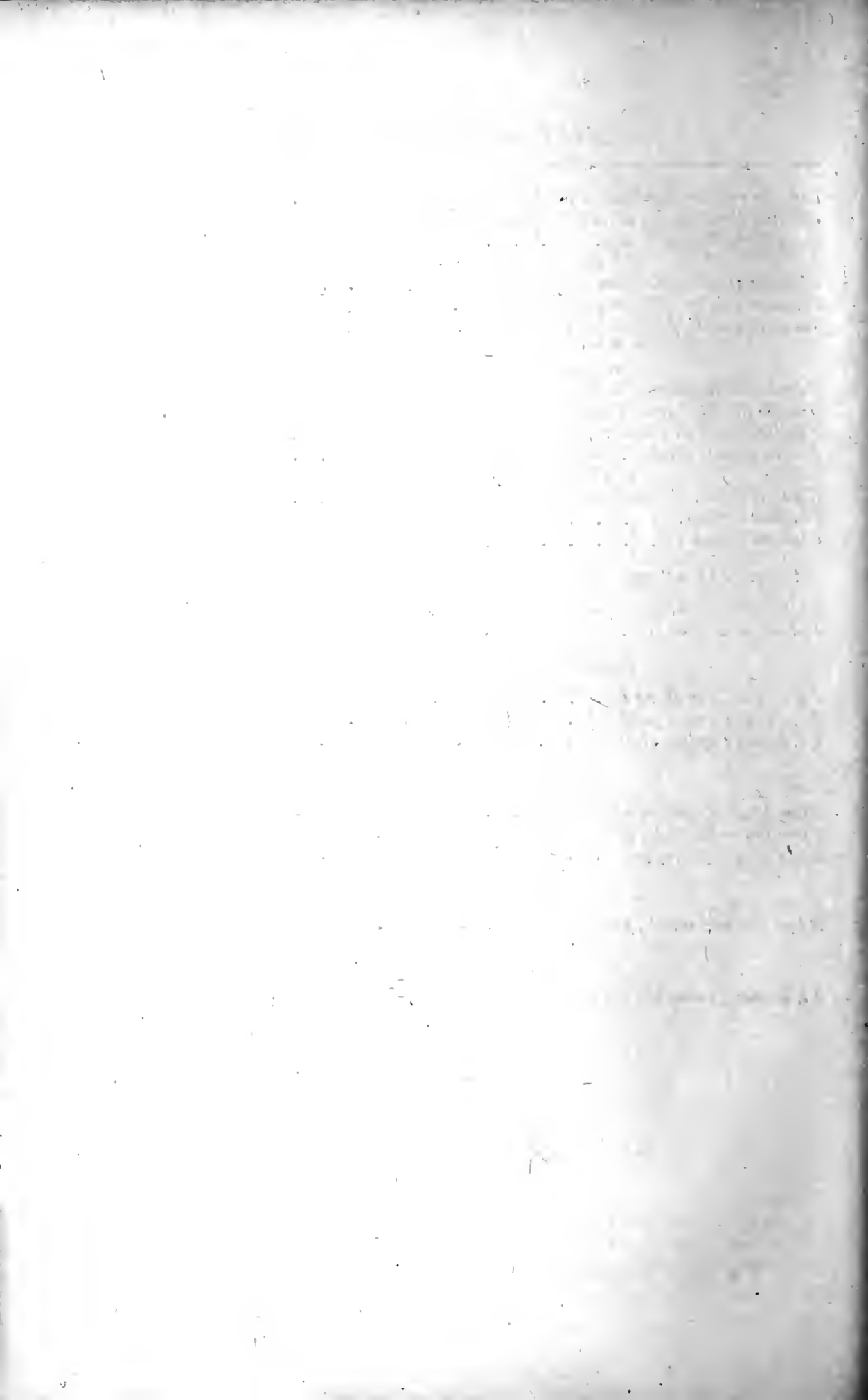
- Stem long—Capsules all similar* . . . . . GEN. I. LYCOPODIUM.  
*Stem long—Capsules of two kinds* . . . . . GEN. II. SELAGINELLA.  
*Stem o—Ls. filiform* . . . . . GEN. III. ISOETES.

## ORD. C.—MARSILEACEÆ.

- Spore clusters sessile, globose* . . . . . GEN. I. PILULARIA.

## ORD. CI.—EQUISETACEÆ.

- St. leafless, branched with toothed sheaths* . . . . . GEN. I. EQUISETUM.



## TABULAR CLASSIFICATION.

## ORD. I.—RANUNCULACEÆ.

| Botanical Name.                           | Common Name.   | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. I. Clematis, L.</b>               | <i>Traveller's Joy.</i>                                  |                          |         |          |                |                       |
| i. <i>C. vitalba, L.</i> . . . .          | <i>common T.</i> . . . .                                 | Hedges .                 | W.      | Cl.      | Shb.           | 7-8                   |
| <b>Gen. II. Thalictrum, L.</b>            | <i>Meadow-Rue.</i>                                       |                          |         |          |                |                       |
| i. <i>T. alpinum, L.</i> . . . .          | <i>Alpine M.</i> . . . .                                 | Alp. bogs                | Y.      | 4-8 in.  | P.             | 7-8                   |
| ii. <i>T. minus, L.</i> . . . .           | <i>lesser M.</i> . . . .                                 | Cha. past.               | g Y.    | 1-4 ft.  | P.             | 7-8                   |
| v. 1. <i>maritimum</i> . . . .            | . . . .  | San. sh.                 | . . .   | . . .    | . . .          | . . .                 |
| v. 2. <i>montanum</i> . . . .             | . . . .  | Stony pas.               | . . .   | . . .    | . . .          | . . .                 |
| v. 3. <i>flexuosum, Bernh.</i> . . . .    | . . . .  | N. of E.                 | . . .   | . . .    | . . .          | . . .                 |
| v. 4. <i>Kochii, Fries</i> . . . .        | . . . .  | Lake dist.               | . . .   | . . .    | . . .          | . . .                 |
| v. 5. <i>Saxatile, Schl.</i> . . . .      | . . . .  | . . . .                  | . . .   | . . .    | . . .          | . . .                 |
| iii. <i>T. flavum, L.</i> . . . .         | <i>common M.</i> . . . .                                 | Riv. banks               | p Y.    | 2-4 ft.  | P.             | 7-8                   |
| v. 1. <i>sphaerocarpum, Sy.</i> . . . .   | . . . .  | . . . .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 2. <i>riparium, Sy.</i> . . . .        | . . . .  | . . . .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 3. <i>Morisonii, Sy.</i> . . . .       | . . . .  | . . . .                  | . . .   | . . .    | . . .          | . . .                 |
| <b>Gen. III. Anemone, L.</b>              | <i>Anemone.</i>  |                          |         |          |                |                       |
| i. <i>A. pulsatilla, L.</i> . . . .       | <i>Pasque fl.</i> . . . .                                | Cha. hills               | Pu.     | 4-8 in.  | P.             | 5-6                   |
| ii. <i>A. nemorosa, L.</i> . . . .        | <i>Wood A.</i> . . . .                                   | Woods .                  | W.      | 4-8 in.  | P.             | 4-5                   |
| iii. <i>A. apennina, L.</i> . . . .       | <i>blue Mount A.</i> . . . .                             | Woods !.                 | B.      | 4-8 in.  | P.             | 4-5                   |
| <b>Gen. IV. Adonis, L.</b>                | <i>Pheasant's-eye.</i>                                   |                          |         |          |                |                       |
| i. <i>A. autumnalis, L.</i> . . . .       | <i>Corn P.</i> . . . . .                                 | Corn fie.                | Cr.     | 6-10 in. | A.             | 5-7                   |
| <b>Gen. V. Myosurus, L.</b>               | <i>Mousetail.</i>  |                          |         |          |                |                       |
| i. <i>M. minimus, L.</i> . . . .          | <i>common M.</i> . . . .                                 | Corn fie.                | y G.    | 2-6 in.  | A.             | 4-6                   |
| <b>Gen. VI. Ranunculus, L.</b>            | <i>Buttercup, Crow-<br/>foot, Spearwort,<br/>&amp;c.</i> |                          |         |          |                |                       |
| SEC. I.                                   |  |                          |         |          |                |                       |
| i. <i>R. aquatilis, L.</i> . . . .        | <i>Water C.</i> . . . . .                                | Pds., dit.<br>& riv.     | W.      | flo.     | P.             | 5-8                   |
| A.  |  |                          |         |          |                |                       |
| * . . . .                                 |  |                          |         |          |                |                       |
| v. 1. <i>heterophyllus, Fries</i> . . . . | . . . .  | Ponds .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 2. <i>pseudo-fluitans, Sy.</i> . . . . | . . . .  | Streams .                | . . .   | . . .    | . . .          | . . .                 |
| * . . . .                                 |  |                          |         |          |                |                       |
| v. 3. <i>peltatus, Fries</i> . . . .      | . . . .  | Ponds .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 4. <i>floribundus, Bab.</i> . . . .    | . . . .  | Ponds .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 5. <i>confusus, Godr.</i> . . . .      | . . . .  | Salt. mar.               | . . .   | . . .    | . . .          | . . .                 |
| v. 6. <i>Baudotii, Godr.</i> . . . .      | . . . .  | Ditches .                | . . .   | . . .    | . . .          | . . .                 |
| B.  |  |                          |         |          |                |                       |
| v. 7. <i>fluitans, Lamk.</i> . . . .      | . . . .  | Rivers. .                | . . .   | . . .    | . . .          | . . .                 |
| v. 8. <i>Bachii, Wirtg.</i> . . . .       | . . . .  | Rivers. .                | . . .   | . . .    | . . .          | . . .                 |
| C.  |  |                          |         |          |                |                       |
| v. 9. <i>Drouetii, Schu.</i> . . . .      | . . . .  | Ponds .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 10. <i>trichophyllus, Cha.</i> . . . . | . . . .  | Ponds .                  | . . .   | . . .    | . . .          | . . .                 |
| v. 11. <i>circinatus, Sib.</i> . . . .    | . . . .  | Ponds .                  | . . .   | . . .    | . . .          | . . .                 |
| D.  |  |                          |         |          |                |                       |
| v. 12. <i>tripartitus, DC.</i> . . . .    | . . . .  | Ditches !                | . . .   | . . .    | . . .          | . . .                 |
| ii. <i>R. Lenormandi, Sch.</i> . . . .    | <i>Mud C.</i> . . . . .                                  | Ditches .                | W.      | Cr.      | P.             | 6-8                   |



## ORD. I.—RANUNCULACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. St. climbing—Ls. pinn. ; lfts. (3-5) cord.

## Gen. II.

- i. St. simp., naked—Ls. bitern. glauc. beneath—Rac. terni.  
 ii. St. leafy—Ls. tri-pinn. ; lfts. trifiid—Pan. lax ; fls. drooping.  
 v. 1. *Leafless at base—Aur. spread—Pan. leafless, broad ; branches spreading.*  
 v. 2. *Leafless at base—Aur. spread—Pan. leafless, narrow ; branches sub-erect.*  
 v. 3. *Leafy at base—Lfts. very large—Aur. reflex—Pan. leafy.*  
 v. 4. *Leafy at base—Lfts. small—Aur. horizontal—Pan. leafless.*  
 v. 5. *Leafy at base—Aur. reflex.—St. ang.—Fls. erect—Ach. not gibbous.*  
 iii. St. furrowed—Ls. bipinn. ; lfts. trifiid—Pan. compact ; fls. erect.  
 v. 1. *Pan. contracted—Ach. glob.*  
 v. 2. *Pan. lax.—Ach. oval.*  
 v. 3. *Pan. interrupted—Ach. obl.*

## Gen. III.

- i. Fls. erect—Sep. silky—Ls. bipinn. ; seg. lin.—Ach. feathery.  
 ii. Fls. drooping—Ls. tern.—Sep. 6 obl.  
 iii. Fls. erect, blue—Ls. tritern.—Sep. 10-14 narrow.

## Gen. IV.

- i. Ls. decom-pound ; seg. lin.—Pet. 5-10 concave, emarginate.

## Gen. V.

- i. Ls. lin., fleshy—Spike slender.

## Gen. VI.

## SEC. I.—AQUATIC PLANTS WITH WHITE FLOWERS.

- i. Flo. ls. trifid ; submerged ls. capil.-multifid. very variable.  
     *A. Fls. large—flo. ls. (usually) present.*  
     \* *Seg. of ls. collapsing when taken from water.*  
 v. 1. *Recept. con. —Pedunc. as long as ls.*  
 v. 2. *Recept. spher. —Pedunc. much longer than ls. —Flo. ls. sometimes absent*  
     \* \* *Seg. of ls. spreading when taken from water.*  
 v. 3. *Recept. spher. —Stig. club-shaped—Carp. blunt—Pedunc. tapering.*  
 v. 4. *Recept. spher. —Stig. tongue-shaped—Carp. blunt—Pedunc. equal.*  
 v. 5. *Recept. ov.-con. —Sta. longer than pist.—Carp. narrowed upwards.*  
 v. 6. *Recept. long-coni. —Sta. shorter than pist.—Carp. infl. upwards.*  
     *B. Fls. large—Flo. ls. absent.*  
 v. 7. *Seg. of ls. long, rigid, and parallel—Pedunc. shorter than ls.*  
 v. 8. *Similar, but ls. smaller, narrower, and sessile—Pedunc. longer than ls.*  
     *C. Fls. small—Flo. ls. absent.*  
 v. 9. *Seg. of ls. collapsing when taken from water.*  
 v. 10. *Seg. of ls. spreading but not in one plane.*  
 v. 11. *Seg. of ls. spreading in one flat rigid plane.*  
     *D. Fls. small—submerged ls. absent.*  
 v. 12. *Ls. nearly round, long stalked, divided nearly to base.*  
 ii. Ls. reni. ; lobes narrowest at base—Pet. twice as long as sep.

## ORD. I.—RANUNCULACEÆ—cont.

| Botanical Name.   | Common Name.                | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|-----------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| iii. <i>R. hederaceus</i> , <i>L.</i> . . .<br>SEC. II.<br>A. | <i>Ivy leaved C.</i> . . .  | Ditches .                | W.      | Cr.       | P.             | 6-8                   |
| iv. <i>R. ficaria</i> , <i>L.</i> . . . .                     | <i>Pilewort</i> . . . .     | Fie. . .                 | Y.      | 3-6 in.   | P.             | 4-5                   |
| v. 1. <i>divergens</i> , <i>Schu.</i> . . .                   | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| v. 2. <i>incumbens</i> , <i>Schu.</i> . . .                   | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| v. <i>R. flammula</i> , <i>L.</i> . . . .                     | <i>lesser S.</i> . . . .    | Wet pl. .                | Y.      | 4-12 in.  | P.             | 6-9                   |
| v. 2. <i>reptans</i> , <i>L.</i> . . . .                      | . . . .                     | San. sh. of<br>lakes!    | . . .   | . . .     | . . .          | . . .                 |
| vi. <i>R. lingua</i> , <i>L.</i> . . . .                      | <i>great S.</i> . . . .     | Bogs . .                 | Y.      | 3-5 ft.   | P.             | 6-9                   |
| vii. <i>R. ophioglossifolius</i> ,<br><i>Vill.</i><br>B.<br>* | <i>Adder's Tongue S.</i>    | Bogs, Jer-<br>sey!       | Y.      | 6-10 in.  | A.             | 6-8                   |
| viii. <i>R. auricomus</i> , <i>L.</i> . . .                   | <i>Goldilocks</i> . . . .   | Thick. .                 | Y.      | 6-10 in.  | P.             | 4-8                   |
| ix. <i>R. acris</i> , <i>L.</i> . . . .                       | <i>upright B.</i> . . . .   | Fie. . .                 | Y.      | 1-3 ft.   | P.             | 6-7                   |
| a. <i>Steiveni</i> , <i>Reich.</i> . . . .                    | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| b. <i>vulgatus</i> , <i>Ford.</i> . . . .                     | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| c. <i>rectus</i> , <i>Bor.</i> . . . .                        | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| x. <i>R. repens</i> , <i>L.</i> . . . .                       | <i>creeping C.</i> . . . .  | Past. . .                | Y.      | 6-12 in.  | P.             | 5-8                   |
| xi. <i>R. bulbosus</i> , <i>L.</i> . . . .                    | <i>bulbous C.</i> . . . .   | Past. . .                | Y.      | 1-2 ft.   | P.             | 5-8                   |
| xii. <i>R. sceleratus</i> , <i>L.</i> . . .<br>* *            | <i>Celery-leaved C.</i> . . | Dit. . .                 | p Y.    | 1-2 ft.   | A.             | 5-9                   |
| xiii. <i>R. hirsutus</i> , <i>Curt.</i> . . .                 | <i>pale hairy C.</i> . . .  | Past. . .                | Y.      | 6-12 in.  | A.             | 6-10                  |
| xiv. <i>R. parviflorus</i> , <i>L.</i> . . .                  | <i>small flowered C.</i>    | Corn fie.                | Y.      | 6-18 in.  | A.             | 5-6                   |
| xv. <i>R. arvensis</i> , <i>L.</i> . . . .                    | <i>Corn C.</i> . . . .      | Corn fie.                | Y.      | 6-18 in.  | A.             | 5-7                   |
| Gen. VII. <i>Caltha</i> , <i>L.</i>                           | <i>Marsh Marygold.</i>      |                          |         |           |                |                       |
| i. <i>C. palustris</i> , <i>L.</i> . . . .                    | <i>common M.</i> . . . .    | Mar. . .                 | Y.      | 8-18 in.  | P.             | 3-6                   |
| a. <i>vulgaris</i> . . . . .                                  | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| v. 2. <i>Guerangerii</i> . . . . .                            | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| v. 3. <i>minor</i> . . . . .                                  | . . . .                     | . . . .                  | . . .   | . . .     | . . .          | . . .                 |
| b. <i>radicans</i> , <i>Forst.</i> . . . .                    | . . . .                     | Scot.! . .               | . . .   | . . .     | . . .          | . . .                 |
| Gen. VIII. <i>Trollius</i> , <i>L.</i>                        | <i>Globe flower.</i>        |                          |         |           |                |                       |
| i. <i>T. Europæus</i> , <i>L.</i> . . .                       | <i>Mountain G.</i> . . .    | Moun.pas.                | Y.      | 6-18 in.  | P.             | 5-6                   |
| Gen. IX. <i>Eranthis</i> , <i>Salisb.</i>                     | <i>Winter Aconite.</i>      |                          |         |           |                |                       |
| [i. <i>E. hyemalis</i> , <i>Salisb.</i> . .                   | <i>common W.</i> . . . .    | Parks . .                | Y.      | 6-12 in.  | P.             | 2-4                   |
| Gen. X. <i>Helleborus</i> , <i>L.</i>                         | <i>Hellebore.</i>           |                          |         |           |                |                       |
| i. <i>H. viridis</i> , <i>L.</i> . . . .                      | <i>green H.</i> . . . .     | Woods .                  | G.      | 12-18 in. | P.             | 4-5                   |
| ii. <i>H. foetidus</i> , <i>L.</i> . . . .                    | <i>stinking H.</i> . . . .  | Woods .                  | G.      | 1-2 ft.   | P.             | 4-5                   |
| Gen. XI. <i>Aquilegia</i> , <i>L.</i>                         | <i>Columbine.</i>           |                          |         |           |                |                       |
| i. <i>A. vulgaris</i> , <i>L.</i> . . . .                     | <i>common C.</i> . . . .    | Thick. .                 | Pu.     | 1-2 ft.   | P.             | 5-6                   |
| Gen. XII. <i>Delphinium</i> , <i>L.</i>                       | <i>Larkspur.</i>            |                          |         |           |                |                       |
| i. <i>I. Ajacis</i> , <i>Reich.</i> . . .                     | <i>field L.</i> . . . . .   | Corn fie.                | B.      | 10-18 in. | A.             | 6-7                   |

ORD. I.—RANUNCULACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

iii. Ls. reni. ; lobes broadest at base—Pet. not longer than sep.

## SEC. II.—TERRESTRIAL PLANTS WITH YELLOW FLOWERS.

*A. Leaves entire.*

iv. St. one flowered—Ls. cord., angled—Rt. tuberous.

v. 1. Lobes of lower ls. not overlapping at base.

v. 2. Lobes of lower ls. overlapping at base.

vi. St. decumb. at base, not rooting at joints—Ls. ov.-lanc., stalked.

v. 2. St. filiform, rooting at joints—Ls. ellip.-lanc.

vi. St. erect—Ls. lanc. sess —Fls. large.

vii. St. erect—Ls. ov.-lanc.; lower ones ovate, long stalked—Pet. scarcely longer than sep

*B. Leaves divided.**\* Achenes smooth.*

viii. Rad. ls. reni., long stalked ; st. ls. digit. ; seg. lin.—Cal. spread., coloured.

ix. Cal. spreading—Pedunc. cylind., smooth—Rt. fibr.

a. St. slightly hairy at base—Seg. of rad. ls. not overlapping (*common*).

ō. St. densely hairy at base—Seg. of rad. ls. overlapping (*common*).

c. St. slightly hairy with adpressed hairs (*rare, Locknagar*).

x. Cal. spread.—Pedunc. furrowed—Rt. with cr. scions.

xi. Cal. reflex.—Pedunc. furrowed—Rt. swollen, almost bulbous.

xii. Cal. reflex. hairy—Ls. tri-pinn. ; upper lobes lin.—Fls. small—St. succulent.

*\* \* Achenes rough.*

xiii. Ach. tubercled at margins—St. erect hairy, many fld —Cal. reflexed.

xiv. Ach. with hooked tubercles—Ls. orb., three-lobed—St. decumb.—Pedunc. lat.

xv. Ach. covered with hooked spines—St. erect—Cal. spread—Fls. pale yellow.

## Gen. VII.

i. Ls. orb., rad.—St. erect—Sep. imbricate.

a. Joints not rooting—Rad. ls. orb.

v. 2. *Smaller—Sep. remote when expanded.*

v. 3. *Procumb.—Fls. sol., smaller—Sep. remote.*

b. Rooting at joints—Rad. ls. deltoid, toothed.

## Gen. VIII.

i. Ls. five part. ; seg. cun. lobed—Fls. glob ; sep. coloured.

## Gen. IX.

i. Rad. ls. orb., 3-5 part., long stalked—Fls. sol.—Invol. leafy.]

## Gen. X.

i. Rad. ls. digit. decid.—St. few-flowered—Cal. spread.

ii. Rad. ls. pedate, evergreen—St. many-flowered—Cal. erect.

## Gen. XI.

i. Ls. 2-3 tern. ; seg. three-lobed, stalked—Pet. spurred—Fls. pan.

## Gen. XII.

i. St. erect, branched—Ls. multifid ; seg. lin.—Rac. of fls. long—Carp. and foll. downy  
(*D. Consolida*, also found in Jersey, has shorter racemes, and the  
carp. and foll. glabrous.)

ORD. I.—RANUNCULACEÆ—*cont.*

| Botanical Name.                 | Common Name.                         | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------|--------------------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. XIII. Aconitum, L.</b>  | <i>Monkshood.</i>                    |                          |         |         |                |                       |
| i. <i>A. napellus, L.</i> . . . | <i>common M.</i> . . .               | Riv. bnks.!              | d B.    | 1-2 ft. | P.             | 7-8                   |
| <b>Gen. XIV. Actæa, L.</b>      | <i>Bane-berry.</i>                   |                          |         |         |                |                       |
| i. <i>A. spicata, L.</i> . . .  | <i>B. or Herb Chris-<br/>topher.</i> | Moi. cops.!              | W.      | 1-2 ft. | P.             | 5-6                   |

## ORD. II.—BERBERACEÆ.

|                                 |                        |          |      |         |      |     |
|---------------------------------|------------------------|----------|------|---------|------|-----|
| <b>Gen. I. Berberis, L.</b>     | <i>Barberry.</i>       |          |      |         |      |     |
| i. <i>B. vulgaris, L.</i> . . . | <i>common B.</i> . . . | Hedges . | þ Y. | 4-6 ft. | Shb. | 5-6 |

## ORD. III.—NYMPHÆACEÆ.

|                                  |                            |             |    |      |    |     |
|----------------------------------|----------------------------|-------------|----|------|----|-----|
| <b>Gen. I. Nymphæa, L.</b>       | <i>Water-lily.</i>         |             |    |      |    |     |
| i. <i>N. alba, L.</i> . . . . .  | <i>white W.</i> . . . . .  | Lakes, &c.  | W. | flo. | P. | 7-8 |
| <b>Gen. II. Nuphar, L.</b>       | <i>Water-lily.</i>         |             |    |      |    |     |
| i. <i>N. lutea, L.</i> . . . . . | <i>yellow W.</i> . . . . . | Lakes, &c.  | Y. | flo. | P. | 7-8 |
| v. 2. <i>minor</i> . . . . .     |                            |             | Y. | flo. | P. | 7-8 |
| ii. <i>N. pumila, Sm.</i> . . .  | <i>least W.</i> . . . . .  | Alp. lakes! | Y. | flo. | P. | 7-8 |

## ORD. IV.—PAPAVERACEÆ.

|  |                                     |            |       |           |       |       |
|--|-------------------------------------|------------|-------|-----------|-------|-------|
| <b>Gen. I. Papaver, L.</b>               | <i>Poppy.</i>                       |            |       |           |       |       |
| *<br>i. <i>P. hybridum, L.</i> . . .     | <i>round prickly-<br/>headed P.</i> | Chal. fie. | Cr.   | 10-18 in. | A.    | 5-7   |
| ii. <i>P. argemone, L.</i> . . .         | <i>long prickly-<br/>headed P.</i>  | Corn fie.  | R.    | 6-10 in.  | A.    | 5-7   |
| ***<br>iii. <i>P. dubium, L.</i> . . . . | <i>long smooth-<br/>headed P.</i>   | Corn fie.  | Sc.   | 1-2 ft.   | A.    | 5-7   |
| a. <i>Lamottei, Bor.</i> . . . .         | . . . . .                           | . . . . .  | . . . | . . .     | . . . | . . . |
| b. <i>Lecoqii, Lam.</i> . . . .          | . . . . .                           | . . . . .  | . . . | . . .     | . . . | . . . |
| iv. <i>P. Rhœas, L.</i> . . . . .        | <i>common red P.</i> . .            | Corn fie.  | Sc.   | 1-2 ft.   | A.    | 5-7   |
| v. 2. <i>strigosum, Boenn.</i> . .       | . . . . .                           | . . . . .  | . . . | . . .     | . . . | . . . |
| v. <i>P. somniferum, L.</i> . . .        | <i>white P.</i> . . . . .           | Corn fie.  | W.    | 1-2 ft.   | A.    | 6-8   |
| <b>Gen. II. Meconopsis, Vig.</b>         | <i>Welch Poppy.</i>                 |            |       |           |       |       |
| i. <i>M. cambrica, Vig.</i> . . .        | <i>common W.</i> . . . .            | Rocky pl.! | Y.    | 1-2 ft.   | P.    | 6-7   |

ORD. I.—RANUNCULACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XIII.

- i. St. erect, simp.—Ls. 3-5 part., seg. deeply cut—Rac. simp.

## Gen. XIV.

- i. Ls. bitern. stalked ; lfts. trifold, deeply cut—Rac. simp., elong.

## ORD. II.—BERBERACEÆ.

## Gen. I.

- i. Branches with three part. spines—Ls. ob.-ov. serr.—Fls. in a pend. rac.

## ORD. III.—NYMPHÆACEÆ.

## Gen. I.

- i. Ls. cord. ent.—Pet. obl., white.

## Gen. II.

- i. Ls. heart-shaped ; lobes at base contiguous—Stig. ent. with 15-20 rays.  
 v. 2. *Fls. smaller* ( $1\frac{1}{2}$  in. diam.)—*Stig. slightly waved with 10-14 rays* (*Chartness loch*)  
 ii. Ls. heart-shaped ; lobes at base distant—Stig. lobed with 8-10 rays.

## ORD. IV.—PAPAVERACEÆ.

## Gen. I.

\* *Fruit hispid.*

- i. Fr. glob., furrowed.

- ii. Fr. club-shaped.

\* \* *Fruit smooth.*

- iii. Fr. obl.—Hairs of pedunc. adpr.

a. Leaf lobes short, suddenly acute—Caps, broadest at top.

b. Leaf lobes long, gradually acute—Caps, broadest at one-third from top.

- iv. Fr. glob.—Hairs of pedunc. spread.

- v. 2. *Hairs of pedunc. adpr.*

- v. Fr. glob., glab.—Ls. lobed, amplex., glauc.

## Gen. II.

- i. Fr. obl., glab.—Ls. long-stalked, pinn. ; lfts. pinnfid.

ORD. IV.—PAPAVERACEÆ—*cont.*

| Botanical Name.                         | Common Name.              | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|---|---------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. III. <i>Chelidonium</i>, L.</b> | <i>Celandine.</i>         |                          |         |         |                |                       |
| i. <i>C. majus</i> , L. . . . .         | <i>Celandine.</i> . . . . | Sh. pl. .                | Y.      | 1-2 ft. | P.             | 5-8                   |
| <b>Gen. IV. <i>Glaucium</i>, L.</b>     | <i>Horned Poppy.</i>      |                          |         |         |                |                       |
| i. <i>G. luteum</i> , Scop. . . . .     | <i>yellow H.</i> . . . .  | San. sh.                 | Y.      | 1-2 ft. | B.             | 6-9                   |
| ii. <i>G. violaceum</i> , Fuss. . .     | <i>violet H.</i> . . . .  | Ch. fie.! .              | Vi.     | 1-2 ft. | P.             | 5-6                   |

## ORD. V.—FUMARIACEÆ.

|                                       |                              |            |       |          |     |     |
|---------------------------------------|------------------------------|------------|-------|----------|-----|-----|
| <b>Gen. I. <i>Fumaria</i>, L.</b>     | <i>Fumitory.</i>             |            |       |          |     |     |
| i. <i>F. capreolata</i> , L. . . .    | <i>rampant F.</i> . . . .    | Corn fie.  | var.  | Cl.      | A.  | 6-9 |
| v. 2. <i>pallidiflora</i> , Ford. .   | . . . . .                    | S.W. of E. | C.    | . .      | . . | . . |
| v. 3. <i>Boræi</i> , Ford. . . . .    | . . . . .                    | . . .      | p Pu. | . .      | . . | . . |
| v. 4. <i>confusa</i> , Ford. . . .    | . . . . .                    | . . .      | Pk.   | . .      | . . | . . |
| v. 5. <i>muralis</i> , Sond. . . .    | . . . . .                    | . . .      | Ry.   | . .      | . . | . . |
| ii. <i>F. officinalis</i> , L. . . .  | <i>common F.</i> . . . .     | Corn fie.  | p Pu. | 6-12 in. | A.  | 5-9 |
| iii. <i>F. micrantha</i> , Lag. . .   | <i>small fld. F.</i> . . .   | Corn fie.  | p Pu. | 6-10 in. | A.  | 5-9 |
| iv. <i>F. tenuisecta</i> , Sy. . . .  | <i>least fld. F.</i> . . . . | Corn fie.  | p Pu. | 6-10 in. | A.  | 6-9 |
| a. <i>parviflora</i> , Lam. . . . .   | . . . . .                    | . . .      | . .   | . .      | . . | . . |
| b. <i>Vaillantii</i> , Lois. . . . .  | . . . . .                    | . . .      | . .   | . .      | . . | . . |
| <b>Gen. II. <i>Corydalis</i>, DC.</b> | <i>Corydalis.</i>            |            |       |          |     |     |
| i. <i>C. claviculata</i> , DC. . .    | <i>white climbing C.</i>     | Thick. .   | y W.  | Cl.      | A.  | 6-9 |
| ii. <i>C. lutea</i> , DC. . . . .     | <i>yellow C.</i> . . . .     | Old walls  | Y.    | 6-10 in. | P.  | 5-8 |
| iii. <i>C. solida</i> , Hook. . . .   | <i>solid rooted C.</i> . .   | Thick.! .  | Pu.   | 6-10 in. | P.  | 4-5 |

## ORD. VI.—CRUCIFERÆ.

|  |                             |            |     |         |    |     |
|--|-----------------------------|------------|-----|---------|----|-----|
| <b>Gen. I. <i>Cakile</i>, Gært.</b>    | <i>Sea-Rocket.</i>          |            |     |         |    |     |
| i. <i>C. maritima</i> , L. . . . .     | <i>purple S. R.</i> . . . . | San. sh. . | Li. | 1-2 ft. | A. | 6-7 |
| <b>Gen. II. <i>Crambe</i>, L.</b>      | <i>Kale.</i>                |            |     |         |    |     |
| i. <i>C. maritima</i> , L. . . . .     | <i>Sea K.</i> . . . . .     | Sea sh. .  | W.  | 1-2 ft. | P. | 6   |
| <b>Gen. III. <i>Coronopus</i>, Sm.</b> | <i>Wart-Cress.</i>          |            |     |         |    |     |
| i. <i>C. didyma</i> , Sm. . . . .      | <i>lesser W.</i> . . . . .  | Was. pl .  | W.  | Cr.     | A. | 7-9 |
| ii. <i>C. Ruellii</i> , Gært. . . .    | <i>common W.</i> . . . .    | Was. pl..  | W.  | Cr.     | A. | 6-9 |
| <b>Gen. IV. <i>Isatis</i>, L.</b>      | <i>Woad.</i>                |            |     |         |    |     |
| i. <i>I. Tinctoria</i> , L. . . . .    | <i>Dyers' W.</i> . . . .    | Fie.! . .  | Y.  | 1-3 ft. | P. | 7-8 |

ORD. IV.—PAPAVERACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. III.

- i. Ls. pinnfid.—Fls. in long stalked umbels.

## Gen. IV.

- i. St. branched, glauc.—Ls. amplex., sinuate—Fls. yellow.  
 ii. Ls. bipinnfid.; seg. lin., scabr.—Pet. violet.

## ORD. V.—FUMARIACEÆ

## Gen. I.

- i. St. climbing—Petioles twisted—Ls. bipinn.—Sep. as broad as tube of cor.  
 v. 2. *Sep. one-half to two-thirds as long as tube of cor.—Fr. longer than broad—Pet. cream-coloured tipped with purple.*  
 v. 3. *Sep. one-third as long as and broader than tube of cor.—Fr. broader than long—Pet. pale purple.*  
 v. 4. *Sep. one-third as long as and rather narrower than tube of cor.—Fr. longer than broad—Pet. pink tipped with purple.*  
 v. 5. *Sep. and fr. as Var. 4, but fls. smaller, rose tipped with purple.*  
 ii. St. erect, branched—Ls. bi-tripinn.—Sep. half as broad as tube of cor.  
 iii. St. diff.—Ls. bipinn.; seg. small—Sep. round, dent. half as long and twice as broad as tube of cor.  
 iv. St. diff.—Ls. bipinn.; seg. lin., glauc.—Sep. minute, lin.  
 a. Seg. of ls. channelled—Rec. dense—Pedi. as long as bracts.  
 b. Seg. of ls. flat—Rac. lax—Pedi. twice as long as bracts.

## Gen. II.

- i. St. cli.—Peti. tendrilled—Ls. pinn.; lfts. 3-5 nate.; seg. ov.  
 ii. St. erect, branched, ang.—Ls. bipinn.; lfts. lobed—Rac. lat.—Rt. fibr.]  
 iii. St. erect, simp.—Ls. 3-4 ternate, glauc.—Rac. term.—Rt. tuberos.]

## ORD. VI.—CRUCIFERÆ.

## Gen. I.

- i. Branches zigzag—Ls. fleshy, pinnfid.

## Gen. II.

- i. Ls. glauc., broad, waved—Root fleshy.

## Gen. III.

- i. Rac. dense—Pouch notched, granulated—Sty. short.  
 ii. Rac. lax—Pouch ent., crested with sharp points—Sty. prominent.

## Gen. IV.

- i. Rad. ls. obl., cren.: St. ls. sagitt.

## ORD. VI.—CRUCIFERÆ—cont.

| Botanical Name.                      | Common Name.                   | Soil or Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--------------------------------------|--------------------------------|--------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. V. Thlaspi, L.</b>           | <i>Penny-Cress.</i>            |                    |         |           |                |                       |
| i. <i>T. arvense, L.</i> . . . .     | <i>Field P.</i> . . . .        | Fie. . .           | W.      | 1-2 ft.   | A.             | 5-7                   |
| ii. <i>T. perfoliatum, L.</i> . . .  | <i>perfoliate P.</i> . . .     | Lim. dis.          | W.      | 4-6 in.   | A.             | 4-5                   |
| iii. <i>T. alpestre, L.</i> . . . .  | <i>Alpine P.</i> . . . .       | Moun. pas.         | W.      | 6-10 in.  | B.             | 5-7                   |
| a. <i>sylvestre, Ford.</i> . . . .   | . . . . .                      | . . . .            | . . .   | . . .     | . . .          | . . .                 |
| b. <i>occitanum, Ford.</i> . . . .   | . . . . .                      | . . . .            | . . .   | . . .     | . . .          | . . .                 |
| c. <i>virens, Ford.</i> . . . .      | . . . . .                      | . . . .            | . . .   | . . .     | . . .          | . . .                 |
| <b>Gen. VI. Capsella, Vent.</b>      | <i>Shepherd's Purse.</i>       |                    |         |           |                |                       |
| i. <i>C. Bursa-pastoris, DC.</i>     | <i>common S.</i> . . . .       | Every-<br>where.   | W.      | 6-18 in.  | A.             | 2-10                  |
| <b>Gen. VII. Hutchinsia, Br.</b>     | <i>Hutchinsia.</i>             |                    |         |           |                |                       |
| i. <i>H. petræa, Br.</i> . . . .     | <i>Rock H.</i> . . . .         | Lim. ro..          | W.      | 2-4 in.   | A.             | 3-5                   |
| <b>Gen. VIII. Teesdalia, Br.</b>     | <i>Teesdalia.</i>              |                    |         |           |                |                       |
| i. <i>T. nudicaulis, Br.</i> . . .   | <i>naked-stalked T.</i>        | Grav. pl.          | W.      | 2-4 in.   | A.             | 4-6                   |
| <b>Gen. IX. Iberis, L.</b>           | <i>Candy-tuft.</i>             |                    |         |           |                |                       |
| i. <i>I. amara, L.</i> . . . .       | <i>bitter C.</i> . . . .       | Chal. fi..         | W.      | 6-9 in.   | A.             | 7-8                   |
| <b>Gen. X. Lepidium, L.</b>          | <i>Pepper-wort.</i>            |                    |         |           |                |                       |
| i. <i>L. latifolium, L.</i> . . . .  | <i>broad-leaved P.</i> . .     | Salt ma.!          | W.      | 2-4 ft.   | P.             | 7-8                   |
| ii. <i>L. Draba, L.</i> . . . .      | <i>Whitlow P.</i> . . . .      | Banks .            | W.      | 1-2 ft.   | P.             | 5-6                   |
| iii. <i>L. Smithii, Hook.</i> . . .  | <i>smooth Fie. P.</i> . . .    | Fie. . .           | W.      | 6-12 in.  | P.             | 4-8                   |
| iv. <i>L. campestre, Br.</i> . . .   | <i>common P.</i> . . . .       | Fie. . .           | W.      | 10-12 in. | A.             | 5-8                   |
| v. <i>L. rudérale, L.</i> . . . .    | <i>narrow-leaved P.</i>        | Salt ma.!          | W.      | 6-12 in.  | A.             | 5-6                   |
| <b>Gen. XI. Cochlearia, L.</b>       | <i>Scurvy Grass.</i>           |                    |         |           |                |                       |
| i. <i>C. officinalis, L.</i> . . . . | <i>common S.</i> . . . .       | Sea sh. .          | W.      | 4-10 in.  | A.             | 5-8                   |
| v. 2. <i>alpina, Wats.</i> . . . .   | . . . . .                      | Scot. mo.!         | . . .   | . . .     | . . .          | . . .                 |
| v. 3. <i>danica, L.</i> . . . .      | . . . . .                      | Sea sh. .          | . . .   | . . .     | . . .          | . . .                 |
| ii. <i>C. anglica, L.</i> . . . .    | <i>English S.</i> . . . .      | Riv. bks.          | W.      | 10-18 in. | A.             | 5-8                   |
| iii. <i>C. armoracia, L.</i> . . . . | <i>Horse-Radish</i> . . .      | Was. pl..          | W.      | 2-3 ft.   | P.             | 5-6                   |
| <b>Gen. XII. Subularia, L.</b>       | <i>Awk-wort.</i>               |                    |         |           |                |                       |
| i. <i>S. aquatica, L.</i> . . . .    | <i>Water A.</i> . . . .        | Marg. of<br>lakes. | W.      | 3-4 in.   | P.             | 7                     |
| <b>Gen. XIII. Draba, L.</b>          | <i>Whitlow Grass.</i>          |                    |         |           |                |                       |
| i. <i>D. aizoides, L.</i> . . . .    | <i>yellow Alpine W.</i>        | Wales! .           | Y.      | 2-5 in.   | P.             | 3-5                   |
| ii. <i>D. rupestris, Br.</i> . . . . | <i>Rock W.</i> . . . .         | Alp. roc.!         | W.      | 1-2 in.   | P.             | 5-6                   |
| iii. <i>D. incana, L.</i> . . . .    | <i>twisted-podded W.</i>       | Alp. roc.!         | W.      | 6-12 in.  | P.             | 5-6                   |
| iv. <i>D. muralis, L.</i> . . . .    | <i>speedwell-leaved<br/>W.</i> | Lim. roc.!         | W.      | 6-12 in.  | A.             | 4-5                   |
| v. <i>D. verna, L.</i> . . . .       | <i>common W.</i> . . . .       | Dry bks.           | W.      | 1-6 in.   | A.             | 4-5                   |
| v. 2. <i>brachycarpa, Ford.</i>      | . . . . .                      | Yorks. .           | . . .   | . . .     | . . .          | . . .                 |
| v. 3. <i>inflata, Hook.</i> . . . .  | . . . . .                      | Ben<br>Lawers.     | . . .   | . . .     | . . .          | . . .                 |



ORD. VI.—CRUCIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. V.**

- i. Pod large, orb. with a broad wing—St. ls. obl., sagitt. toothed, glab.
- ii. Pod ob.-cord. broadly winged—St. ls. sagitt. cord—Sty. very short.
- iii. Pod ob.-ov. retuse—St. simple—Sty. as long as notch.
  - a. Rac. long—Sty. not longer than notch.
  - b. Rac. obl.—Sty. longer than notch—Pod triang.
  - c. Rac. oval—Sty. much longer than notch—Pod ob.-oval.

**Gen. VI.**

- i. Pod triang., ob.-cord.—Rad. ls. pinnfid.—Very variable.

**Gen. VII.**

- i. L. pinnfid., seg. ent.—Sep. as long as pet.

**Gen. VIII.**

- i. Ls. all rad., lyr. pinnfid.—Pet. unequal.

**Gen. IX.**

- i. St. branched—Ls. obl., lanc., acu.—Fls. spiked.

**Gen. X.**

- i. Ls. ov. lanc., ent., toothed—Pod oval, downy—Sty. minute.
- ii. Ls. obl., ent.—St. ls. amplex—Pod cord.—Sty. as long as pod.]
- iii. St. branched from base—Sty. twice as long as notch—Anth. violet.
- iv. St. erect, simp., branched at top—Sty. not longer than notch—Anth. yellow.
- v. Rad. ls. pinnfid.—St. ls. lin. ent.—Fls. apetalous—Sty. minute.

**Gen. XI.**

- i. Rad. ls. cord—St. ls. sess. ; semi-amplex angled—Pod globose.
- v. 2. *Smaller—Ls. fleshy—Pod ob.-ov.*
- v. 3. *Rad. ls. cord—St. ls. stalked, delt.—Pod ovate. veiny.*
- ii. Rad. ls. ovate, obl.—St. ls. lanc., toothed, semi-amplex—Pod ellip. strongly veined.
- iii. Rad. ls. obl. ; cren. long stalked—St. ls. lanc., sess.—Root cylind.]

**Gen. XII.**

- i. Ls. few, rad., subulate—Roots of long white fibres.

**Gen. XIII.**

- i. St. naked—Ls. lanc., rigid, fringed—Pet. twice as long as sep.
- ii. St. naked or one-leaved—Ls. lanc., hairy, soft—Pet. slightly notched.
- iii. St. leafy—Ls. lanc., toothed, pubes—Pods twisted.
- iv. St. branched flex.—Ls. cord. toothed, hairy—Pods flat, obt.
- v. St. naked—Ls. lanc., toothed, hairy—Pet. deeply notched—Pod. compr. ob.-ov., twice as long as broad.
- v. 2. *Pods compressed, orb.—1½ times as long as broad.*
- v. 3. *Pods inflated.*

ORD. VI.—CRUCIFERÆ—*cont.*

| Botanical Name.                              | Common Name.                                  | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--|---|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. XIV. Camelina,</b><br><i>Crantz.</i> | <i>Gold-of-Pleasure.</i>                      |                          |         |          |                |                       |
| i. <i>C. sativa, Cr.</i> . . . .             | <i>common G.</i> . . . .                      | Flax fie. .              | Y.      | 2-3 ft.  | A.             | 6-7                   |
| <b>Gen. XV. Koniga, Br.</b>                  | <i>Koniga.</i>                                |                          |         |          |                |                       |
| [i. <i>K. maritima, Br.</i> . .              | <i>Sea-side K.</i> . . . .                    | Sea co. .                | W.      | 4-8 in.  | P.             | 8-9                   |
| <b>Gen. XVI. Alyssum, L.</b>                 | <i>Alyssum.</i>                               |                          |         |          |                |                       |
| [i. <i>A. calycinum, L.</i> . .              | <i>Alyssum</i> . . . .                        | Sea co. .                | Y.      | 3-8 in.  | A.             | 6-8                   |
| <b>Gen. XVII. Dentaria, L.</b>               | <i>Coral-wort.</i>                            |                          |         |          |                |                       |
| i. <i>D. bulbifera, L.</i> . . . .           | <i>bulbiferous C.</i> . . .                   | Sha. pl.!                | Li.     | 1-2 ft.  | P.             | 4-5                   |
| <b>Gen. XVIII. Cardamine,</b><br><i>L.</i>   | <i>Bitter-cress.</i>                          |                          |         |          |                |                       |
| i. <i>C. amara, L.</i> . . . .               | <i>large fld. B.</i> . . . .                  | Wat. pl. .               | W.      | 1-2 ft.  | P.             | 4-5                   |
| ii. <i>C. pratensis, L.</i> . . . .          | <i>Cuckoo flower</i> . . .                    | Mead. .                  | Li.     | 1-2 ft.  | P.             | 4-6                   |
| iii. <i>C. hirsuta, L.</i> . . . .           | <i>hairy B.</i> . . . .                       | Wat. pl. .               | W.      | 6-12 in. | A.             | 4-8                   |
| v. 2. <i>sylvatica, Link.</i> . . .          | .....   | .....                    | .....   | .....    | .....          | .....                 |
| iv. <i>C. impatiens, L.</i> . . . .          | <i>narrow-leaved B.</i>                       | Roc. pl.!                | W.      | 1-2 ft.  | A.             | 6-7                   |
| <b>Gen. XIX. Arabis, L.</b>                  | <i>Rock Cress.</i>                            |                          |         |          |                |                       |
| i. <i>A. petræa, Lam.</i> . . . .            | <i>Alpine R.</i> . . . .                      | Alp. roc.!               | W.      | 3-6 in.  | P.             | 7-8                   |
| ii. <i>A. stricta, Huds.</i> . . . .         | <i>Bristol R.</i> . . . .                     | Rocks!                   | W.      | 5-10 in. | P.             | 4-5                   |
| iii. <i>A. ciliata, Br.</i> . . . .          | <i>fringed R.</i> . . . .                     | Ir. sea roc.!            | W.      | 4-6 in.  | B.             | 7-8                   |
| v. 2. <i>hispida, Sy.</i> . . . .            | .....   | S. Wales                 | .....   | .....    | .....          | .....                 |
| iv. <i>A. hirsuta, Br.</i> . . . .           | <i>hairy R.</i> . . . .                       | Dry bks.                 | W.      | 1-2 ft.  | B.             | 6-8                   |
| v. 2. <i>glabrata, Sy.</i> . . . .           | .....   | Arran.!                  | .....   | .....    | .....          | .....                 |
| v. A. <i>perfoliata, Lamk.</i> . .           | <i>smooth R. C., or</i>                       | Dry bks.!                | y W.    | 2-3 ft.  | B.             | 5-6                   |
|  | <i>Tower Mustard.</i>                         |                          |         |          |                |                       |
| [vi. <i>A. Turrita, L.</i> . . . .           | <i>Tower R.</i> . . . .                       | Walls! .                 | p Y.    | 1-2 ft.  | B.             | 5                     |
| <b>Gen. XX. Barbarea, Br.</b>                | <i>Winter Cress.</i>                          |                          |         |          |                |                       |
| i. <i>B. vulgaris, Br.</i> . . . .           | <i>yellow Rocket.</i> . . .                   | Dp. pl. .                | Y.      | 1-2 ft.  | B.             | 5-8                   |
| v. 2. <i>arcuata, Reich.</i> . . . .         | .....   | I.!                      | .....   | .....    | .....          | .....                 |
| v. 3. <i>stricta, And.</i> . . . .           | .....   | N. of E.!                | .....   | .....    | .....          | .....                 |
| v. 4. <i>intermedia, Bor.</i> . . .          | .....   | .....                    | .....   | .....    | .....          | .....                 |
| ii. <i>B. præcox, Br.</i> . . . .            | <i>early W.</i> . . . .                       | Was. pl.                 | Y.      | 1-2 ft.  | B.             | 5-7                   |
| <b>Gen. XXI. Nasturtium,</b><br><i>Br.</i>   | <i>Water-Cress or</i><br><i>Yellow Cress.</i> |                          |         |          |                |                       |
| i. <i>N. officinale, Br.</i> . . . .         | <i>common W.</i> . . . .                      | Brooks. .                | W.      | 2-3 ft.  | P.             | 6-7                   |
| v. 2. <i>siifolium, Rei.</i> . . . .         | .....   | .....                    | .....   | .....    | .....          | .....                 |
| ii. <i>N. palustre, DC.</i>                  | <i>Marsh Y.</i> . . . .                       | Wat. pl. .               | Y.      | 1-2 ft.  | P.             | 6-8                   |
| iii. <i>N. sylvestre, Br.</i> . . .          | <i>creeping Y.</i> . . . .                    | Wet pl. .                | Y.      | 9-12 in. | P.             | 6-9                   |

ORD. VI.—CRUCIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XIV.

- i. Rad. ls. stalked—St. ls. lanc., arrow shaped—Pods large, long stalked.

## Gen. XV.

- i. St. procumb.—Ls. lin. lanc., acute—Pods glab.]

## Gen. XVI.

- i. St. stellately hoary—Ls. ob.-ov., lan.—Pods pubes.

## Gen. XVII.

- i. St. simple—Lower ls. pinn. ; upper simple.

## Gen. XVIII.

- i. Lfts. of st. ls. toothed, ang.—Sta. as long as pet.—Anth. violet.  
 ii. Lfts. of st. ls. lanc., ent.—Stam. half as long as pet.—Anth. yellow.  
 iii. Lfts. of lower ls. roundish obl. ; cut, petioled ; upper ones narrower—Pet. small, ob.-lanc.—Stam. four—Pods and pedi. erect.  
 2. *Perennial*—Stam. six—Pedi. patent—Pods erect.  
 iv. Lfts. lanc., narrow, cut—Petio. with sagitt. ciliated stip—Pet. lin. or ov.

## Gen. XIX.

- i. Rad. ls. lyr. pinnfid. stalked—St. ls. ent.—Pods spr.  
 ii. Rad. ls., lyr., toothed, obt., hispid—St. ls. semi-amplex—Pods erect.  
 iii. St. simp.—Rad. ls. ob.-ov., ciliate—St. ls. sess., ellip., pods erect.  
 2. *Leaves hispid.*  
 iv. Ls. all hispid, toothed—St. ls. semi-amplex—Pods adpr. .  
 2. *St. and ls. glab.*  
 v. St. very erect—Rad. ls. toothed ; st. ls. glab., glauc. ent., amplex, auricled—Pods many, crowded, erect.  
 vi. Rad. ls. ellip., stalked ; st. ls. narrow, amplex—Pods recurved ; flat with a thickened margin.]

## Gen. XX.

- i. Rad. ls. lyr.—Upper ls. toothed ; term. lfts. roundish—Pod short, thicker than pedi.  
 2. *Pods in a lax. elong. rac.—Pet. twice as long as sep. ; pedi. spreading.*  
 3. *Pods in a dense rac.—Term. lft. large—Pet. half as long again as sep.—Pedi. adpr.—Seeds twice as long as broad.*  
 4. *Term. lft. smaller—Seg. of ls. more numerous—Pet. twice as long as sep.—Seeds as long as broad.*  
 ii. Rad. ls. lyr.—Upper pinnfid. ; seg. narrow—Pod long, not thicker than pedi.

## Gen. XXI.

- i. Aquatic—Fls. white—Ls. pinn. ; term. lfts. larger.  
 2. *St. tall, erect, thick—Term. lfts. not larger.*  
 ii. Rt. fibr.—Ls. pinnfid. seg. unequally cut—Pet. not longer than sep.—Pods turgid, obl.  
 iii. Rt. cr.—Ls. pinn. ; lfts. lanc., cut—Pet. twice as long as sep.—Pods lin.

ORD. VI.—CRUCIFERÆ—*cont.*

| Botanical Name.                               | Common Name.                | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|-----------------------------|--------------------------|---------|----------|----------------|-----------------------|
| iv. <i>N. amphibium</i> , <i>Br.</i> .        | <i>amphibious Y.</i> .      | Wet. pl.                 | Y.      | 2-4 ft.  | P.             | 6-9                   |
| Gen. XXII. <i>Sisymbrium</i> ,<br><i>L.</i>   | <i>Hedge Mustard.</i>       |                          |         |          |                |                       |
| i. <i>S. officinale</i> , <i>Scop.</i> . .    | <i>common H.</i> . . .      | Was. pl..                | Y.      | 1-2 ft.  | A.             | 6-7                   |
| ii. <i>S. Irio</i> , <i>L.</i> . . . . .      | <i>London Rocket.</i> . .   | Old walls!               | Y.      | 1-2 ft.  | A.             | 6-7                   |
| iii. <i>S. Sophia</i> , <i>L.</i> . . . .     | <i>Flix Weed.</i> . . . .   | Was. pl..                | Y.      | 1-2 ft.  | A.             | 6-8                   |
| iv. <i>S. thalianum</i> , <i>Hook.</i> .      | <i>Thale Cress.</i> . . .   | Dry pl. .                | W.      | 6-10 in. | A.             | 5-9                   |
| v. <i>S. alliaria</i> , <i>Sc.</i> . . . .    | <i>Garlic Mustard.</i> .    | Banks .                  | W.      | 2-3 ft.  | B.             | 5-6                   |
| [vi. <i>S. polyceratum</i> , <i>L.</i> .      | . . . . .                   | Bury St.<br>Edmunds.     | Y.      | 1-2 ft.  | A.             | 7-8                   |
| Gen. XXIII. <i>Erysimum</i> ,<br><i>L.</i>    | <i>Treacle Mustard.</i>     |                          |         |          |                |                       |
| i. <i>E. cheiranthoides</i> , <i>L.</i>       | <i>Worm-seed T.</i> . .     | Was. pl..                | W.      | 1-2 ft.  | B.             | 6-8                   |
| [ii. <i>E. orientale</i> , <i>Br.</i> . . . . | <i>Hare's-ear T.</i> . .    | Cliffs !. .              | W.      | 1-2 ft.  | A.             | 5-7                   |
| Gen. XXIV. <i>Cheiranthus</i> ,<br><i>L.</i>  | <i>Wallflower.</i>          |                          |         |          |                |                       |
| i. <i>C. cheiri</i> , <i>L.</i> . . . . .     | <i>Common W.</i> . . .      | Walls . .                | Y.      | 6-12 in. | P.             | 4-5                   |
| Gen. XXV. <i>Matthiola</i> , <i>Br.</i>       | <i>Stock.</i>               |                          |         |          |                |                       |
| i. <i>M. incana</i> , <i>Br.</i> . . . .      | <i>hoary shrubby S.</i>     | Cliffs !. .              | Pu.     | 1-2 ft.  | P.             | 5-6                   |
| ii. <i>M. sinuata</i> , <i>Br.</i> . . . .    | <i>great sea S.</i> . . . . | San. sh.!                | Pu.     | 1-2 ft.  | B.             | 6-8                   |
| Gen. XXVI. <i>Hesperis</i> , <i>L.</i>        | <i>Dame's Violet.</i>       |                          |         |          |                |                       |
| i. <i>H. matronalis</i> , <i>L.</i> . . .     | <i>Common D.</i> . . . .    | Hilly pas.!              | Li.     | 2-3 ft.  | B.             | 5-6                   |
| Gen. XXVII. <i>Brassica</i> , <i>L.</i>       | <i>Cabbage, &amp;c.</i>     |                          |         |          |                |                       |
| i. <i>B. oleracea</i> , <i>L.</i> . . . .     | <i>Wild Cabbage.</i> . .    | Cliffs . .               | Y.      | 1-2 ft.  | B.             | 6-8                   |
| ii. <i>B. campestris</i> , <i>L.</i> . . .    | <i>Wild Naveau.</i> . . .   | Riv. banks               | Y.      | 1-2 ft.  | A. or<br>B.    | 6-7                   |
| iii. <i>B. napus</i> , <i>L.</i> . . . . .    | <i>Rape.</i> . . . . .      | Was. gr.                 | Y.      | 1-2 ft.  | A.             | 5-6                   |
| iv. <i>B. rapa</i> , <i>L.</i> . . . . .      | <i>Turnip.</i> . . . . .    | Was. pl..                | Y.      | 1-2 ft.  | B.             | 4-7                   |
| v. <i>B. monensis</i> , <i>Br.</i> . . . .    | <i>I. of Man C.</i> . . . . | Sand. sh.!               | Y.      | 6-18 in. | B.             | 6-8                   |
| v. 2. <i>cheiranthus</i> , <i>Vill.</i> . .   | . . . . .                   | Jersey !.                | . . .   | . . .    | . . .          | . . .                 |
| Gen. XXVIII. <i>Sinapis</i> , <i>L.</i>       | <i>Mustard.</i>             |                          |         |          |                |                       |
| i. <i>S. arvensis</i> , <i>L.</i> . . . . .   | <i>Charlock.</i> . . . . .  | Corn fie..               | Y.      | 1-2 ft.  | A.             | 5-8                   |
| ii. <i>S. alba</i> , <i>L.</i> . . . . .      | <i>white M.</i> . . . . .   | Corn fie..               | Y.      | 1-2 ft.  | A.             | 6-7                   |
| iii. <i>S. nigra</i> , <i>L.</i> . . . . .    | <i>common M.</i> . . . .    | Corn fie..               | Y.      | 1-2 ft.  | A.             | 6-8                   |
| iv. <i>S. incana</i> , <i>L.</i> . . . . .    | <i>hoary M.</i> . . . . .   | Jersey !.                | Y.      | 1-2 ft.  | B.             | 7-8                   |
| Gen. XXIX. <i>Diplotaxis</i> ,<br><i>DC.</i>  | <i>Rocket.</i>              |                          |         |          |                |                       |
| i. <i>D. tenuifolia</i> , <i>DC.</i> . . .    | <i>Wall R.</i> . . . . .    | Old walls                | Y.      | 1-3 ft.  | P.             | 7-9                   |
| ii. <i>D. muralis</i> , <i>DC.</i> . . . .    | <i>Sand R.</i> . . . . .    | Was. pl..                | Y.      | 6-9 in.  | A.             | 8-9                   |
| v. 2. <i>Babingtonii</i> , <i>Bab.</i> . .    | . . . . .                   | . . . . .                | . . .   | . . .    | . . .          | . . .                 |

ORD. VI.—CRUCIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- iv. Ls. obl., lanc., serr. or pinnfid.—Pet. twice as long as sep.—Pod obl. shorter than the stalk.

## Gen. XXII.

- i. St. hairy—Ls. runc., hairy—Pods subulate adpr.
- ii. St. glab.—Ls. runc., glab.—Pods terete, erect.
- iii. St. slightly hairy—Ls. bi.-pinnfid ; seg. lin.
- iv. Ls. nearly all rad., obl., lan., toothed, pubes—Pods asc. with four obscure angles.
- v. Ls. large, cord stalked, much veined—Pods erect, long, on short stout pedi.
- vi. St. prost.—Ls. runc—pinnfid., glab.—Rods three together, sess., axill., subu.]

## Gen. XXIII.

- i. Ls. lanc., ent. or slightly lobed, hairy.
- ii. Ls. ellip., cord., ent., amplex, glauc. ; rad. ls. obt.]

## Gen. XXIV.

- i. St. shrubby—Ls. lanc., ent.

## Gen. XXV.

- i. St. shrubby, branched, erect—Ls. lanc., ent.—Pod cylin.
- ii. St. herb., spread.—Ls. lin., downy ; lower sinuate—Pod compr., muricate.

## Gen. XXVI.

- i. St. erect—Ls. oval, lanc., toothed—Pet. obt.

## Gen. XXVII.

- i. Rt. fleshy, cylind.—Ls. glauc., lobed, waved.
- ii. Rt. tuber.—St. slender—Lower ls. lyr.—somewhat hispid ; upper cord. amplex. glauc.—Pods erect.
- iii. Rt. fusiform—Ls. all glab., glauc., lower lyr.—Pods spread.
- iv. Rt. tub., fleshy—Lower ls. scabrous ; upper ls. glab.
- v. St. prost., leafless—Ls. deeply pinnfid., glab.
- 2. *St. erect, branched, leafy, hispid below.*

## Gen. XXVIII.

- i. Ls. ovate, lyr.—Pods spread., knotted, longer than beak.
- ii. Ls. lyr., pinnfid.—Pods spread., knotted, shorter than beak.
- iii. Upper ls. lin.-lanc., ent. glab.—Pods adpr., four angled ; beak sterile.
- iv. St. much branched—Upper ls. lin.-lanc. hispid—Pods adpr. cylind. ; beak one-seeded.

## Gen. XXIX.

- i. St. leafy, branched, glabr.—Ls. lanc., pinnfid. glauc.
- ii. St. simple, leafless, hispid—Ls. lyr., sinu., glab.
- 2. *Biennial—St. ls. several.*

## ORD. VI.—CRUCIFERÆ—cont.

| Botanical Name.               | Common Name.           | Soil<br>or<br>Situation. | Colour.     | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|-------------------------------|------------------------|--------------------------|-------------|---------|----------------|-----------------------|
| <b>Gen. XXX. Raphanus, L.</b> | <i>Radish.</i>         |                          |             |         |                |                       |
| i. <i>R. raphanistrum, L.</i> | <i>wild R. . . . .</i> | Corn fie..               | Y. or<br>W. | 1-2 ft. | A.             | 6-7                   |
| ii. <i>R. maritimus, Sm.</i>  | <i>Sea R. . . . .</i>  | Sea co. .                | Y.          | 3-4 ft. | B.             | 6-7                   |

## ORD. VII.—RESEDACEÆ.

|                                    |                          |                  |                  |                  |                  |                  |
|------------------------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Gen. I. Reseda, L.</b>          | <i>Mignonette.</i>       |                  |                  |                  |                  |                  |
| i. <i>R. luteola, L.</i>           | <i>Dyers' Weed . . .</i> | Was. pl..        | Y.               | 2-3 ft.          | A.               | 7-8              |
| ii. <i>R. lutea, L.</i>            | <i>wild M. . . . .</i>   | Cha. fie.        | Y.               | 1-2 ft.          | B.               | 6-8              |
| [iii. <i>R. suffruticulosa, L.</i> | <i>shrubby M. . . .</i>  | Sandy sh.        | W.               | 1-2 ft.          | B.               | 7-8              |
| v. 2. <i>alba, L.</i>              | <i>. . . . .</i>         | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |

## ORD. VIII.—CISTACEÆ.

|                                     |                          |                  |                  |                  |                  |                  |
|-------------------------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Gen. I. Helianthemum, Tourn.</b> | <i>Rock Rose.</i>        |                  |                  |                  |                  |                  |
| i. <i>H. vulgare, Gær.</i>          | <i>common R. . . .</i>   | Cha. past.       | Y.               | 3-10 in.         | P.               | 7-9              |
| ii. <i>H. polifolium, Pers.</i>     | <i>white R. . . . .</i>  | Downs!           | W.               | 3-10 in.         | P.               | 7-9              |
| iii. <i>H. canum, Dunal.</i>        | <i>hoary R. . . . .</i>  | Cha. roc.        | Y.               | 6-8 in.          | P.               | 5-7              |
| v. 2. <i>vineale, Pers.</i>         | <i>. . . . .</i>         | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |
| iv. <i>H. guttatum, Mill.</i>       | <i>spotted annual R.</i> | Downs!           | Y.               | 6-12 in.         | A.               | 6-8              |
| v. 2. <i>Breweri, Planch.</i>       | <i>. . . . .</i>         | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |

## ORD. IX.—VIOLACEÆ.

|                                      |                                       |                    |                  |                  |                  |                  |
|--------------------------------------|---------------------------------------|--------------------|------------------|------------------|------------------|------------------|
| <b>Gen. I. Viola, L.</b>             | <i>Violet, Pansy,<br/>Heartsease.</i> |                    |                  |                  |                  |                  |
| i. <i>V. Palustris, L.</i>           | <i>marsh V. . . . .</i>               | Mar. . .           | Li.              | Cr.              | P.               | 4-7              |
| ii. <i>V. odorata, L.</i>            | <i>sweet V. . . . .</i>               | Banks. .           | var.             | Cr.              | P.               | 3-5              |
| iii. <i>V. hirta, L.</i>             | <i>hairy V. . . . .</i>               | Chal. pas.         | p B.             | Cr.              | P.               | 4-6              |
| v. 2. <i>calcareæ, Bab.</i>          | <i>. . . . .</i>                      | Gogmagog<br>Hills. | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |
| v. 3. <i>sepincola, Ford.</i>        | <i>. . . . .</i>                      | <i>. . . . .</i>   | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |
| iv. <i>V. canina, L.</i>             | <i>Dog V. . . . .</i>                 | Woods .            | var.             | Cr.              | P.               | 4-5              |
| A.                                   |                                       |                    |                  |                  |                  |                  |
| a. <i>V. sylvatica, Fries.</i>       | <i>. . . . .</i>                      | <i>. . . . .</i>   | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |
| v. 1. <i>Riviniana, Reich.</i>       | <i>. . . . .</i>                      | <i>. . . . .</i>   | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |
| v. 2. <i>Reichenbachiana, Reich.</i> | <i>. . . . .</i>                      | <i>. . . . .</i>   | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> | <i>. . . . .</i> |

ORD. VI.—CRUCIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XXX.

- i. Ls. simply lyr.—Sty. twice as long as last joint of pod.
- ii. Rad. ls. interruptedly pinn.—Sty. scarcely longer than last joint of pod.

## ORD. VII.—RESEDACEÆ.

## Gen. I.

- i. Ls. lanc., ent.—Sep. and pet. four.
- ii. Ls. lower pinn. : upper trifid—Sep. and pet. six unequal.
- iii. Ls. all pin., waved, glauc. ; seg. lin.—Sep. and pet. five equal.]
- v. 2. *Sep. and pet. six.*

## ORD. VIII.—CISTACEÆ.

## Gen. I.

- i. St. shrubby, procumb.—Ls. stip. opp., ov., flat, green above, hoary beneath.
- ii. St. shrubby, procumb.—Ls. sti., opp., obl., revol. at margin, hoary on both sides.
- iii. St. shrubby, procumb.—Ls. not stip., opp., ov.-obl., stalked, flat, hairy above, hoary beneath.
- v. 2. *Ls. glab. above.*
- iv. St. ann. erect—Ls. obl., lanc., lower opp. upper alt.—Rac. without tracts.
- v. 2. *Rac. bracteate.*

## ORD. IX.—VIOLACEÆ.

## Gen. I.

- \* *Stem short, creeping.*
- i. Ls. reni., cord., glab.—Stig. flat—Fr. st. erect.
- ii. Ls. cord., slightly hairy—Stig. hooked—Fr. st. prost.—Runners long—Spur. straight—Fls. violet, lilac or white.
- iii. Ls. cord. very hairy—Runners o. or short.—Fr. st. prost.—Spur. hooked.
- v. 2. *Pet. narrower—Pedunc. longer than ls.*
- v. 3. *much hairier—With longer runners.*
- \*\* *Stem evident.*
- iv. L. obl. cord. long stalked, smooth, varying—Fr. st. erect—Spur. blunt.
  - A. *Main. st. flowerless—Fl. stems axill.*
- a. L. orb., cord., acum.—Spur. long—Caps. glab.
- v. 1. *Spur. pale furrowed—Fls. large.*
- v. 2. *Spur. purple, not furrowed—Fls. smaller and later.*

ORD. IX.—VIOACEÆ—*cont.*

| Botanical Name.                        | Common Name.             | Soil<br>or<br>Situation. | Colour.    | Growth.  | Dura-<br>tion. | Time of<br>flowering |
|--|--------------------------|--------------------------|------------|----------|----------------|----------------------|
| <i>b. arenaria, DC.</i> . . . .        | . . . .                  | Teesdale !               | . .        | . .      | . .            | . .                  |
| <i>B.</i>                              |                          |                          |            |          |                |                      |
| <i>c. canina, Bab.</i> . . . .         | . . . .                  | Hea. . .                 | . .        | . .      | . .            | . .                  |
| <i>v. 2. flavicornis, Sm.</i> . . . .  | . . . .                  | Hea. . .                 | . .        | . .      | . .            | . .                  |
| <i>d. lactea, Sm.</i> . . . .          | . . . .                  | Hea. ! . .               | . .        | . .      | . .            | . .                  |
| <i>e. stagnina, Kit.</i> . . . .       | . . . .                  | Bogs. ! .                | . .        | . .      | . .            | . .                  |
| <i>v. V. tricolor, L.</i> . . . .      | <i>Pansy</i> . . . .     | Pas. . . .               | P. &<br>Y. | 4-10 in. | A.             | 5-9                  |
| <i>v. 2. arvensis, Murr.</i> . . . .   | . . . .                  | Fie. . . .               | w Y.       | . .      | . .            | . .                  |
| <i>vi. V. Curtisii, Forst.</i> . . . . | . . . .                  | San. sh. !               | B. &<br>Y. | 3-10 in. | P.             | 5-9                  |
| <i>v. 1. Forsteri.</i> . . . .         | . . . .                  | . . . .                  | . .        | . .      | . .            | . .                  |
| <i>v. 2. Mackaii</i> . . . .           | . . . .                  | . . . .                  | . .        | . .      | . .            | . .                  |
| <i>v. 3. Symei</i> . . . .             | . . . .                  | . . . .                  | . .        | . .      | . .            | . .                  |
| <i>vii. V. lutea, Huds.</i> . . . .    | <i>yellow P.</i> . . . . | Hill. pl. !              | Y.         | 6-12 in. | P.             | 5-9                  |
| <i>v. 2. amœna</i> . . . .             | . . . .                  | . . . .                  | . .        | . .      | . .            | . .                  |

## ORD. X.—DROSERACEÆ.

|                                     |                            |          |    |         |    |     |
|-------------------------------------|----------------------------|----------|----|---------|----|-----|
| <b>Gen. I. Drosera, L.</b>          | <i>Sundew.</i>             |          |    |         |    |     |
| <i>i. D. rotundifolia, L.</i> . . . | <i>round-leaved S.</i> . . | Bogs . . | W. | 3-6 in. | P. | 7-8 |
| <i>ii. D. intermedia, L.</i> . . .  | <i>long-leaved S.</i> . .  | Bogs . . | W. | 2-4 in. | P. | 7-8 |
| <i>iii. D. Anglica, Huds.</i> . . . | <i>great English S.</i>    | Bogs . . | W. | 4-8 in. | P. | 7-8 |

## ORD. XI.—POLYGALACEÆ.

|                                       |                        |                         |                |          |     |     |
|---------------------------------------|------------------------|-------------------------|----------------|----------|-----|-----|
| <b>Gen. I. Polygala, L.</b>           | <i>Milkwort.</i>       |                         |                |          |     |     |
| <i>i. P. vulgaris, L.</i> . . .       | <i>common M.</i> . . . | Hea. . .                | W.B.<br>or Li. | 2-10 in. | P.  | 6-8 |
| <i>v. 2. grandiflora, Sy.</i> . . .   | . . . .                | Benbulbin !             | . .            | . .      | . . | . . |
| <i>v. 3. oxyptera, Reich.</i> . . .   | . . . .                | San. sh. .              | . .            | . .      | . . | . . |
| <i>v. 4. ciliata.</i> . . . .         | . . . .                | Gogmagog<br>Hills.      | . .            | . .      | . . | . . |
| <i>v. 5. depressa, Wen.</i> . . .     | . . . .                | Hea. . .                | . .            | . .      | . . | . . |
| <i>ii. P. calcarea, Sch.</i> . . .    | . . . .                | Chalky<br>downs.        | W.B.<br>or Li. | 2-6 in.  | P.  | 5-6 |
| <i>iii. P. uliginosa, Frie.</i> . . . | . . . .                | Teesdale<br>and Kent. ! | d Pk.          | 2-4 in.  | P.  | 6-8 |

## ORD. XII.—FRANKENIACEÆ.

|                                |                          |             |     |     |    |     |
|--------------------------------|--------------------------|-------------|-----|-----|----|-----|
| <b>Gen. I. Frankenia, L.</b>   | <i>Sea-Heath.</i>        |             |     |     |    |     |
| <i>i. F. lævis, L.</i> . . . . | <i>smooth S.</i> . . . . | Salt mar. ! | Ro. | Cr. | P. | 8-9 |



ORD. IX.—VIOLACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES

- b.* L. broadly cord., obt.—Sp. short—Caps. pubesc.  
*B. Main. st. long, branched, flowering.*  
*c.* L. narrow, cord. at base, roundedly acute—Spur. obt.—Caps. ovoid.  
*v. 2. Smaller—Ls. more cord.—Spur. paler.*  
*d.* L. lanc., base rounded—Pet. narrow, grey—Caps. sub-glob.  
*e.* Rootstock creeping—Ls. obl. lanc.; base trunc.—Pet. oval, obl., pale—Caps. three-sided.  
*v.* Rootstock o.—Ls. obl., cren.—Stip. leafy—Pet. longer than sep.—Caps. ovoid.  
*v. 2. Pet. not longer than sep.—Caps. glob.*  
*vii.* Rootstock woody, creeping; branches stout—St. ang. rough—Pet. scarcely longer than sep.  
*v. 1. } Vars. Forsteri and Mackain differ only in the colour of the fls.*  
*v. 2. }*  
*v. 3. Fls. larger, yellow, one in. long.—Stip. larger—(Mullaghmore, I.).*  
*vii.* Rootstock slender, underground—Pet. yellow, much longer than sep.  
*v. 2. Fls. purple.*

## ORD. X.—DROSERACEÆ.

## Gen. I.

- i.* Ls. orb., spread.—Peti. hairy.  
*ii.* Ls. obl., spath., erect—Peti. glab.—Seeds with a compact rough coat.  
*iii.* Ls. ob.-ov., lanc., erect—Peti. glab.—Seeds with a loose chaffy coat.

## ORD. XI.—POLYGALACEÆ.

## Gen. I.

- i.* St. woody—Lower ls. ov., crowded; upper lanc., alt.—Cal. wings ob.-ov. broader than fr.—Pedi. glab.—Rac. term.  
*v. 2. Upper ls. large—Cal. wings ellip. ac.—Fls. dark blue.*  
*v. 3. Fls. smaller—Cal. wings ellip., cun. below, narrower than fr.—Pedi. glab.*  
*v. 4. Cal. wings ob.-ov. broader than fr.—Pedi. pubesc.—Sep., bracts, and caps. ciliate.*  
*v. 5. St. fili.—Lower ls. spath., scattered; upper ellip. nearly opp., distichous—Rac. term. and lat.*  
*ii.* St. branched; each branch with a rosette of ellip. ls., from which the fl. shoots spring—St. ls. narrower—Cal. wings ob.-ov. broader and longer than fr.  
*iii.* Ls. spath. in a rad. rosette—Upper ls. narrow—Cal. wings obl. narrower than fr.

## ORD. XII.—FRANKENIACEÆ.

## Gen. I.

- i.* Ls. lin., revolute at marg., glab., ciliate at base.

## ORD. XIII.—ELATINACEÆ.

| Botanical Name.                    | Common Name.                   | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|------------------------------------|--------------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. I. Elatine, L.</b>         | <i>Waterwort.</i>              |                          |         |         |                |                       |
| i. <i>E. hexandra, DC.</i> . . .   | <i>hexandrous W.</i> .         | Marg. of<br>lakes!       | Ro.     | Cr.     | A.             | 8-9                   |
| ii. <i>E. Hydropiper, L.</i> . . . | <i>small octandrous<br/>W.</i> | Marg. of<br>lakes!       | Ro.     | Cr.     | A.             | 8-9                   |

## ORD. XIV.—CARYOPHYLLACEÆ.

|  |                                 |             |       |          |       |       |
|--|---------------------------------|-------------|-------|----------|-------|-------|
| <b>Gen. I. Dianthus, L.</b>                    | <i>Pink, Carnation.</i>         |             |       |          |       |       |
| *<br>i. <i>D. prolifer, L.</i> . . . . .       | <i>proliferous P.</i> . . .     | Grav. pl.!  | Ro.   | 6-12 in. | A.    | 7     |
| ii. <i>D. Armeria, L.</i> . . . . .            | <i>Deptford P.</i> . . . .      | Dry banks   | Ro.   | 1-1½ ft. | A.    | 7-8   |
| ***<br>[iii. <i>D. plumarius, L.</i> . . . . . | <i>wild P.</i> . . . . .        | Old walls!  | Pk.   | 1 ft.    | P.    | 6-7   |
| [iv. <i>D. caryophyllus, L.</i> . . . . .      | <i>Carnation</i> . . . . .      | Old walls!  | Pk.   | 1-1½ ft. | P.    | 7-8   |
| v. <i>D. cæsius, Sm.</i> . . . . .             | <i>Cheddar P.</i> . . . .       | Lim. rocs.! | Pk.   | 4-12 in. | P.    | 6-7   |
| vi. <i>D. deltoides, L.</i> . . . . .          | <i>Maiden P.</i> . . . .        | Hilly pas.! | Ro.   | 6-12 in. | P.    | 6-9   |
| v. 2. <i>glaucus, L.</i> . . . . .             | . . . . .                       | Edinbro'!   | . . . | . . .    | . . . | . . . |
| <b>Gen. II. Saponaria, L.</b>                  | <i>Soapwort.</i>                |             |       |          |       |       |
| i. <i>S. officinalis, L.</i> . . . . .         | <i>common S.</i> . . . .        | Hedges .    | Ro.   | 1-1½ ft. | P.    | 8     |
| v. 2. <i>hybrida, Mil.</i> . . . . .           | . . . . .                       | Waysides    | . . . | . . .    | . . . | . . . |
| <b>Gen. III. Silene, L.</b>                    | <i>Catchfly, Campion.</i>       |             |       |          |       |       |
| *<br>i. <i>S. inflata, Sm.</i> . . . . .       | <i>Bladder Cam.</i> . . .       | Past. . .   | W.    | 2-3 ft.  | P.    | 6-7   |
| v. 2. <i>puberula, Ford.</i> . . . .           | . . . . .                       | !           | . . . | . . .    | . . . | . . . |
| ii. <i>S. maritima, With.</i> . . . .          | <i>Sea Cam.</i> . . . . .       | Sea sh. .   | W.    | 3-6 in.  | P.    | 6-8   |
| ***<br>iii. <i>S. Otites, Sm.</i> . . . . .    | <i>Spanish Catch.</i> . .       | San. fie.!  | y G.  | 1-3 ft.  | P.    | 6     |
| iv. <i>S. Anglica, L.</i> . . . . .            | <i>English Catch.</i> . .       | San. fie. . | pkW.  | 1-2 ft.  | A.    | 6-9   |
| v. 2. <i>quinquevulnera, L.</i> . . . .        | . . . . .                       | Jersey .    | W.    | . . .    | . . . | . . . |
| v. <i>S. nutans, L.</i> . . . . .              | <i>Nottingham<br/>Catchfly.</i> | Lim. rocs.! | W.    | 2-3 ft.  | P.    | 6-7   |
| v. 3. <i>paradoxa, Sm.</i> . . . . .           | . . . . .                       | Dover .     | . . . | . . .    | . . . | . . . |
| vi. <i>S. noctiflora, L.</i> . . . . .         | <i>night flowering C.</i>       | San. fie.!  | p R.  | 1-2 ft.  | A.    | 7-8   |
| vii. <i>S. conica, L.</i> . . . . .            | <i>striated Corn. C.</i>        | San. fie.!  | Ro.   | 6-12 in. | A.    | 5-6   |
| viii. <i>S. acaulis, L.</i> . . . . .          | <i>Moss. Camp.</i> . . .        | Alp. rocks  | Pk.   | 2-3 in.  | P.    | 7-8   |
| <b>Gen. IV. Lychnis, L.</b>                    | <i>Campion, Catch-<br/>fly.</i> |             |       |          |       |       |
| i. <i>L. alpina, L.</i> . . . . .              | <i>red Alpine Catch.</i>        | Sc. mount.! | Ro.   | 5-6 in.  | P.    | 6-7   |
| ii. <i>L. viscaria, L.</i> . . . . .           | <i>red German Catch.</i>        | Lim. rocs.! | Ro.   | 6-10 in. | P.    | 6-7   |
| iii. <i>L. flos-cuculi, L.</i> . . . . .       | <i>ragged Robin.</i> . . .      | Moi. mea.   | Ro.   | 1-2 ft.  | P.    | 5-6   |
| iv. <i>L. diurna, Sibth.</i> . . . . .         | <i>red Campion.</i> . . .       | Dp. banks   | R.    | 1-2 ft.  | P.    | 6-7   |

## ORD. XIII.—ELATINACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES

## Gen. I.

- i. Fls. stalked; pet. three ob.-ov.—Sta. six—Seeds straight.
- ii. Fls. sess.; pet. four ov.—Sta. eight—Seeds bent.

## ORD. XIV.—CARYOPHYLLACEÆ.

## Gen. I.

\* *Flowers clustered.*

- i. Fls. capit.—Ls. lin. lanc.; margins rough—Cal. scales ov., blunt., membr.
- ii. Fls. fascicled—Ls. lin., opp., conn.—Cal. scales lanc., downy.

\* \* *Flowers solitary.*

- iii. Ls. lin., acute, one-nerved, rough at margin—Fls. sol. in a lax. cyme; pet. multifid.]
- iv. Ls. grooved, glauc., smooth at margin—Fls. in a lax. cyme; pet. toothed.
- v. St. one flowered—Ls. lin., glauc., rough at marg.—Cal. scales orb., very short.
- vi. Ls. flat, downy—Pet. toothed—Cal. scales two lanc., acute.
- v. 2. *Ls. glauc.—Cal. scales four—Fls. white.*

## Gen. II.

- i. Ls. ovate, lanc., glab.—Calyx cylind.
- v. 2. *Ls. conn.—Corolla monopetalous.*

## Gen. III.

\* *Calyx inflated.*

- i. St. erect—Fls. pan.—Ls. glab.—Pet. deeply cleft.
- v. 2. *Ls. downy.*

- ii. St. decumb.—Fls. sol.—Pet. shortly cleft.

\* \* *Calyx cylindrical.*

- iii. St. erect, nearly simp.—Ls. spath.—Fls. small whorled—Pet. lin., ent.
- iv. St. erect, viscid.—Ls. lanc.—Fls. sol., axill. alt.—Pet. bifid.
- v. 2. *Pet. entire, white, with a pink spot.*
- v. St. erect, viscid and hairy—Ls. lanc.—Fls. pan., drooping—Pet. deeply cut into lin. segm.
- v. 2. *"Broader" Bab. "not distinguishable" Syme.*
- vi. St. erect, dichot.—Ls. obl.-lanc., acute—Fls. in a forked panicle—Pet. bifid, obt., crowned.
- vii. St. erect, forked, hairy—Ls. lin., lanc.—Fls. term. and in the forks—Cal. coni., many-furrowed.
- viii. St. tufted, one fld.—Ls. lin., ciliate at base.

## Gen. IV.

- i. St. glab.—Ls. lin., lanc.—Fls. capit., corymb.; pet. bifid
- ii. St. viscid—Ls. lanc.—Fls. pan.; pet. slightly notched.
- iii. St. viscid—Ls. lanc.—Fls. pan.; pet. four cleft.
- iv. St. hairy—Ls. ovate-lanc.—Fls. diæcious; cal. teeth triang.—Caps. glob.; its teeth recurved.

ORD. XIV.—CARYOPHYLLACEÆ—*cont.*

| Botanical Name.                               | Common Name.                          | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|---------------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| v. <i>L. vespertina</i> , <i>Sipth.</i> . .   | <i>white Campion.</i> . .             | Fie. . . .               | W.      | 1-2 ft.  | P.             | 6-7                   |
| vi. <i>L. Githago</i> , <i>Lam.</i> . .       | <i>Corn-cockle.</i> . . . .           | Corn fie..               | p Pu.   | 1-2 ft.  | A.             | 7-8                   |
| Gen. V. <i>Moenchia</i> , <i>Ehrh.</i>        | <i>Moenchia.</i>                      |                          |         |          |                |                       |
| i. <i>M. erecta</i> , <i>Sm.</i> . . . .      | <i>erect M.</i> . . . .               | Dry pl. .                | W.      | 2-6 in.  | A.             | 5-6                   |
| Gen. VI. <i>Sagina</i> , <i>L.</i>            | <i>Pearl-wort.</i>                    |                          |         |          |                |                       |
| i. <i>S. apetala</i> , <i>L.</i> . . . .      | <i>annual small fld.</i><br><i>P.</i> | Dry pl. .                | W.      | 4-10 in. | A.             | 6-9                   |
| ii. <i>S. ciliata</i> , <i>Fr.</i> . . . .    | <i>ciliated P.</i> . . . .            | Dry pl. .                | W.      | Cr.      | A.             | 5-6                   |
| iii. <i>S. maritima</i> , <i>Don.</i> . .     | <i>Sea P.</i>                         | Sea co. .                | r W.    | Cr.      | A.             | 5-9                   |
| v. 2. <i>debilis</i> , <i>Ford.</i> . . . .   | . . . . .                             | . . . . .                | . .     | . .      | . .            | . .                   |
| v. 3. <i>densa</i> , <i>Ford.</i> . . . .     | . . . . .                             | E. of E.!.               | . .     | . .      | . .            | . .                   |
| v. 4. <i>alpina</i> , <i>Syme.</i> . . . .    | . . . . .                             | BenNevis!                | . .     | . .      | . .            | . .                   |
| iv. <i>S. procumbens</i> , <i>L.</i> . . .    | <i>procumbent P.</i> . .              | Dry pl. .                | W.      | Cr.      | P.             | 5-9                   |
| v. <i>S. saxatilis</i> , <i>Wimm.</i> . .     | <i>Alpine P.</i> . . . .              | Sc. moun.!               | W.      | Cr.      | P.             | 6-8                   |
| vi. <i>S. subulata</i> , <i>Wimm.</i> . .     | <i>Awl-shaped P.</i> . .              | Dry pl. .                | W.      | Cr.      | P.             | 6-8                   |
| vii. <i>S. nivalis</i> , <i>Fr.</i> . . . .   | . . . . .                             | Sc. moun.!               | W.      | Cr.      | P.             | 6-8                   |
| viii. <i>S. nodosa</i> , <i>L.</i> . . . .    | <i>knotted P.</i> . . . .             | Damp. pl.                | W.      | 3-4 in.  | P              | 7-8                   |
| Gen. VII. <i>Spergula</i> , <i>L.</i>         | <i>Spurrey</i>                        |                          |         |          |                |                       |
| i. <i>S. arvensis</i> , <i>L.</i> . . . .     | <i>Corn-sp.</i> . . . .               | Corn fie..               | W.      | Cr.      | A.             | 6-8                   |
| Gen. VIII. <i>Honckenya</i> ,<br><i>Ehrh.</i> | <i>Sea-purslane.</i>                  |                          |         |          |                |                       |
| i. <i>H. peplodes</i> , <i>Ehrh.</i> . .      | <i>Sea-purslane.</i> . .              | Sea co. .                | W.      | Cr.      | P.             | 5-8                   |
| Gen. IX. <i>Spergularia</i> ,<br><i>Pers.</i> | <i>Sandwort-<br/>Spurrey.</i>         |                          |         |          |                |                       |
| i. <i>S. marina</i> . . . . .                 | <i>Sea-side S.</i>                    | Sea co. .                | W.      | Cr.      | A. or<br>P.    | 6-9                   |
| a. <i>neglecta</i> , <i>Sy.</i> . . . .       | . . . . .                             | . . . . .                | . .     | . .      | A.             | . .                   |
| v. 2. <i>salina</i> . . . . .                 | . . . . .                             | . . . . .                | . .     | . .      | . .            | . .                   |
| v. 3. <i>media</i> . . . . .                  | . . . . .                             | . . . . .                | . .     | . .      | . .            | . .                   |
| b. <i>marginata</i> , <i>Sy.</i> . . . .      | . . . . .                             | . . . . .                | . .     | . .      | P.             | . .                   |
| c. <i>rupestris</i> , <i>Lebel.</i> . . .     | . . . . .                             | Sea co.!                 | . .     | . .      | P.             | . .                   |
| ii. <i>S. rubra</i> , <i>Fen.</i> . . . .     | <i>Field S.</i> . . . .               | Dry pl. .                | W.      | Cr.      | A.             | 6-9                   |
| Gen. X. <i>Arenaria</i> , <i>L.</i>           | <i>Sandwort.</i>                      |                          |         |          |                |                       |
| i. <i>A. ciliata</i> , <i>L.</i> . . . .      | <i>fringed S.</i> . . . .             | Ir. moun.!               | W.      | Cr.      | P.             | 5-6                   |
| ii. <i>A. Norvegica</i> , <i>Gunn.</i>        | <i>Norwegian S.</i> . .               | Sc. moun.!               | W.      | Cr.      | P.             | 5-6                   |
| iii. <i>A. serpyllifolia</i> , <i>L.</i> . .  | <i>Thyme-leaved S.</i>                | Dry pl. .                | W.      | Cr.      | A.             | 5-6                   |
| v. 1. <i>sphaerocarpa</i> , <i>Te.</i> . .    | . . . . .                             | . . . . .                | . .     | . .      | . .            | . .                   |
| v. 2. <i>Lloydii</i> , <i>Ford.</i> . . . .   | . . . . .                             | . . . . .                | . .     | . .      | . .            | . .                   |
| v. 3. <i>leptoclados</i> , <i>Gus.</i> . .    | . . . . .                             | . . . . .                | . .     | . .      | . .            | . .                   |

ORD. XIV.—CARYOPHYLLACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- v. Like No. 4, but fls. white—Cal. teeth lin. lanc.—Caps. con. its teeth erect.  
 vi. St. erect, branched—Fls. large sol. ; cal. teeth woolly, longer than cor

## Gen. V.

- i. L. lin.-lanc., rigid, glauc.—Sep. with membr. marg.

## Gen. VI.

- i. Slightly pubesc.—St. ascending—Ls. aristate, fringed—Sep. spread. longer than caps.  
 ii. Gland-pubesc.—St. decumb.—Ls. mucro., cil.—Sep. adpr. to caps.  
 iii. Glab.—St. slender erect or decumb., with long internodes—Ls. lin., fleshy, blunt—Pedunc. erect—Pet. small or none—Caps. equal to pet.  
 v. 2. *Procumb., slend.—Internodes long—Caps. shorter than sep.*  
 v. 3. *Erect—St. slender, branched with short internodes—Caps. as Var. 2.*  
 v. 4. *Erect—St. stout with short internodes—Caps. as Var. 2.*  
 iv. Glab.—St. procumb.; central very short, flowerless; branches long, rooting—Ls. lin., awned—Pedunc. recurved after flowering; sep. spread. in fr.  
 v. Closely resembling Sp. 4, but sep. adpressed in fruit, pet. longer, and stamens 10.  
 vi. Tufted, gland.-hairy—Ls. lin., awned, ciliate.—Pedunc. long, curved after flowering.  
 vii. Densely tufted, glab.—Ls. acum.—Pedunc. always erect.  
 (The three last species might well be combined.)  
 viii. St. procumb.—Ls. subu. glab., conn. with leaf buds in their axils—Fls. 2-3 term.—Pet. much longer than sep.

## Gen. VII.

- i Ls. whorled, lin. fleshy—Fr. stalks reflexed—Seeds rough.

## Gen. VIII.

- i. Ls. ovate, acute, fleshy—Fls. sol., sess. ; pet. not longer than sep.

## Gen. IX.

- i. Per.—Ls. lin. fleshy, convex below, blunt—Caps. longer than sep.—Bracts. delt. ovate.  
 a. Ann.—Bracts., scarious, shorter than pedi.—Seeds smooth.  
 v. 2. *Bracts leafy, as long as pedi.—Seeds winged.*  
 v. 3. *Bracts leafy, longer than pedi.—Seeds winged.*  
 b. Perenn. larger and quite glab.—Fls. paler—Stip. dull white.  
 c. Perenn. resembling Sub.-sp. marginata—But pedicels sep. and stip. gland.-pubesc. and stip. silvery white.  
 ii. L. lin., flat, pointed—Caps. not longer than sep.—Stip. lanc., toothed.

## Gen. X.

- i. St. procumb., branched—Ls. spath., ciliate, fls. sol.—Sep. half as long as pet prominently ribbed.  
 ii. Like Sp. 1., but ls. fleshy, glab.—Sep. broader and obscurely ribbed.  
 iii. St. decumb.—Ls. ovate., acute, sess., rigid—Sep. longer than pet., hairy.  
 v. 1. *Rigid—Caps. ovoid., pedicel erect.*  
 v. 2. *Stout—Caps. swollen at base (I. of W.).*  
 v. 3. *Weak—Caps. narrow, pedicel spreading.*

## ORD. XIV.—CARYOPHYLLACEÆ—cont.

| Botanical Name.                           | Common Name.                       | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|------------------------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| iv. <i>A. tenuifolia</i> , L. . . .       | <i>fine-leaved S.</i> . . .        | Sandy fie.               | W.        | 4-6 in.   | A.             | 5-6                   |
| v. 2. <i>laxa</i> , Ford. . . . .         | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 3. <i>viscosa</i> , Bab. . . . .       | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. <i>A. verna</i> , L. . . . .           | <i>vernal S.</i> . . . . .         | Dry rocks                | W.        | 2-4 in.   | P.             | 5-9                   |
| v. 2. <i>Gerardi</i> , Will. . . . .      | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| vi. <i>A. rubella</i> , Hook. . . . .     | <i>Alpine S.</i> . . . . .         | Sc. moun.!               | W.        | 1-2 in.   | P.             | 7-8                   |
| vii. <i>A. uliginosa</i> , Schl. . . . .  | <i>Bog S.</i> . . . . .            | Teesdale!                | W.        | 2-3 in.   | P.             | 6-7                   |
| viii. <i>A. trinervis</i> , L. . . . .    | <i>three-nerved S.</i> . . . . .   | Damp pl.                 | W.        | 6-12 in.  | A.             | 5-6                   |
| Gen. XI. <i>Holosteum</i> , L.            | <i>Jagged Chickweed.</i>           |                          |           |           |                |                       |
| i. <i>H. umbellatum</i> , L. . . . .      | <i>umbelliferous J.</i> . . . . .  | Old walls!               | W.        | 4-8 in.   | A.             | 4-5                   |
| Gen. XII. <i>Stellaria</i> , L.           | <i>Stitchwort.</i>                 |                          |           |           |                |                       |
| i. <i>S. nemorum</i> , L. . . . .         | <i>Wood S.</i> . . . . .           | Dp. wds.                 | W.        | 1-2 ft.   | P.             | 5-6                   |
| ii. <i>S. media</i> , With. . . . .       | <i>Chickweed.</i> . . . . .        | every-<br>where.         | W.        | 6-18 in.  | A.             | 3-9                   |
| v. 2. <i>Boreana</i> , Ford. . . . .      | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 3. <i>neglecta</i> , Wei. . . . .      | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 4. <i>umbrosa</i> , Opi. . . . .       | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| iii. <i>S. holostea</i> , L. . . . .      | <i>greater S.</i> . . . . .        | Hedges .                 | W.        | 1-2 ft.   | P.             | 4-6                   |
| iv. <i>S. glauca</i> , With. . . . .      | <i>glaucous S.</i> . . . . .       | Mar. . . .               | W.        | 1-2 ft.   | P.             | 5-7                   |
| v. <i>S. graminea</i> , L. . . . .        | <i>lesser S.</i> . . . . .         | Dry pl. .                | W.        | 1-2 ft.   | P.             | 5-8                   |
| vi. <i>S. uliginosa</i> , Murr. . . . .   | <i>Bog S.</i> . . . . .            | Bogs . . .               | W.        | 3-12 in.  | A.             | 5-6                   |
| vii. <i>S. cerastoides</i> , L. . . . .   | <i>Alpine S.</i> . . . . .         | Sc. moun.!               | W.        | 4-6 in.   | P.             | 7-8                   |
| Gen. XIII. <i>Cerastium</i> , L.          | <i>Mouse-ear Chick-<br/>weed.</i>  |                          |           |           |                |                       |
| i. <i>C. aquaticum</i> , L. . . . .       | <i>Water M.</i> . . . . .          | Wet pl. .                | W.        | 1-2 ft.   | P.             | 7-8                   |
| ii. <i>C. glomeratum</i> , Thuil. . . . . | <i>broad-leaved M.</i> . . . . .   | Dry pl. .                | W.        | 6-10 in.  | A.             | 4-9                   |
| iii. <i>C. triviale</i> , Link. . . . .   | <i>narrow-leaved M.</i> . . . . .  | Dry pl. .                | W.        | 6-10 in.  | A. or<br>B.    | 4-9                   |
| v. 2. <i>holosteoides</i> , Fri. . . . .  | . . . . .                          | N. of E..                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 3. <i>pentandrum</i> . . . . .         | . . . . .                          | Dry walls                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| iv. <i>C. semidecandrum</i> , L. . . . .  | <i>little M.</i> . . . . .         | Sea sh. .                | W.        | 1-8 in.   | A.             | 4-5                   |
| v. 2. <i>pumilum</i> , Curt. . . . .      | . . . . .                          | ! . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. <i>C. tetrandrum</i> , Curt. . . . .   | <i>Four-cleft M.</i> . . . . .     | San. pl. .               | W.        | 6-12 in.  | A.             | 5-7                   |
| vi. <i>C. arvense</i> , L. . . . .        | <i>Field M.</i> . . . . .          | Dry pl. .                | W.        | 6-10 in.  | P.             | 4-8                   |
| v. 2. <i>Andrewsii</i> , Sy. . . . .      | . . . . .                          | Arran.!                  | . . . . . | . . . . . | . . . . .      | . . . . .             |
| vii. <i>C. alpinum</i> , L. . . . .       | <i>hairy Alpine M.</i> . . . . .   | Alp. rocs.!              | W.        | 3-5 in.   | P.             | 6-8                   |
| v. 2. <i>pubescens</i> . . . . .          | . . . . .                          | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| viii. <i>C. latifolium</i> , L. . . . .   | <i>broad-leaved Alp.</i> . . . . . | Alp rocs.!               | W.        | 3-5 in.   | P.             | 5-8                   |
|   | <i>M</i>                           |                          |           |           |                |                       |

ORD. XIV.—CARYOPHYLLACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- iv. St. erect—slender, branched—Ls. lin., lanc., glab.—Sep. three-nerved, as long as pet.—Sta. 10.
- v. 2. Sta. 5—Sep. gland., shorter than caps. (*Great Wilbraham*).
- v. 3. Sta. 8-10—Pedunc. and sep. gland.-hairy—Sep. as long as caps (*Thetford*).
- v. St. tufted—Ls. lin., subu. acute, three-veined—Sep. three-nerved, shorter than the obl. pet.
- v. 2. Ls. blunt; lower ones adpressed.
- vi. St. densely tufted—Ls. subu. obtuse, three-veined—Fls. sol.—Sep. acute, longer than the lanc. pet.
- vii. St. loosely tufted—Ls. subu., veinless—Pedunc. very long, 1-3-flowered—Sep. ov.-acute, as long as the ob.-ov. pet.
- viii. St. diffuse, hairy—Ls. ov., acute, peti. cili.—Fls. axill., sol., long-stalked.

## Gen. XI.

- i. Ls. ellip., ovate—Fls. umbell.—Pedunc. viscid (E. of Eng.).

## Gen. XII.

- i. Lower ls. cord., stalked; upper ov. sess.—Pan. dichot.
- ii. St. decumb., with a hairy, alternately lateral line—Ls. ovate.—Sta. 5.
- v. 2. Petals absent—Sta. 3.
- v. 3. St. suberect—Ls. larger—Sta. 10.
- v. 4. St. erect, slender—Pedi. glab.—Sep. glab. with raised points.
- iii. St. erect, ang.—Ls. lanc., serr., acum.—Sep. nerveless, half as long as pet.
- iv. St. erect, angled—Ls. lin. lan., ent., glauc.—Fls. sol., axill.—Sep. three-nerved, shorter than pet.
- v. St. diffuse—Ls. lin., lan., ent., glab.—Sep. three-nerved, as long as pet.
- vi. St. diffuse—Ls. ovate, lanc., callous at tip—Sep. longer than pet.
- vii. St. decumb., with an alt., hairy line, two-flowered—Ls. obl., obt.—Sep. one-nerved, downy.

## Gen. XIII.

- i. St. long, straggling—Ls. large cord. sess.—Fls. axill., sol.  
\* Annual—Sep. as long as pet.
- ii. St. erect, viscid—Ls. oval, pale green—Pet. equal to sep.; pedi. shorter than sep.
- iii. St. diffuse, viscid, hairy—Ls. lanc., deep green; pedi. longer than hairy sep.
- v. 2. St. with two lines of hairs—Sep. glab—Sta. 10.
- v. 3. Annual—Sep. hairy—Sta. 5—Caps. shorter.
- iv. St. sub-erect—Cymes few flowered—Pet. notched; sta. 5; bracts half membranous—Caps. shorter than sep.
- v. 2. Bracts with a narrow memb. margin—Caps. longer.
- v. St. diffuse—Ls. ovt.—Sep. 4—Fr. stalks three or four times as long as sep.  
\* \* Perennial—Sep. shorter than pet.
- vi. St. hairy—Ls. lin. lanc.—Pet. twice as long as sep.
- v. 2. Ls. rigid, glab.—Fls. solitary.
- vii. St. ascending—Ls. ov. covered with long white hairs—Pan. dichot, few-flowered—Sep. with a narrow memb. margin.
- v. 2. Covered with short hairs.
- viii. St. prostr., tufted—Ls. ov., covered with short yellowish hairs—Fls. sol.—Sep. with a broad memb. margin.

## ORD. XIV —CARYOPHYLLACEÆ—cont.

| Botanical Name.                   | Common Name.            | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|-----------------------------------|-------------------------|--------------------------|---------|---------|----------------|-----------------------|
| v. 2. <i>compactum</i> , Sy. . .  | . . . .                 | Braemar !                | . .     | . .     | . .            | . .                   |
| v. 3. <i>nigrescens</i> , Sy. . . | . . . .                 | Unst. !                  | . .     | . .     | . .            | . .                   |
| <b>Gen. XIV. Cherleria, L.</b>    | <i>Cyphel.</i>          |                          |         |         |                |                       |
| i. <i>C. sedoides</i> , L. . . .  | <i>Mossy C.</i> . . . . | Sc. mount. !             | y G.    | 1-2 in. | P.             | 6-8                   |

## ORD. XV.—LINACEÆ.

|                                      |                             |              |      |          |    |     |
|--------------------------------------|-----------------------------|--------------|------|----------|----|-----|
| <b>Gen. I. Linum, L.</b>             | <i>Flax.</i>                |              |      |          |    |     |
| i. <i>L. usitatissimum</i> , L. . .  | <i>common F.</i> . . . .    | Corn fie.    | B.   | 1-1½ ft. | A. | 7   |
| ii. <i>L. perenne</i> , L. . . .     | <i>perennial F.</i> . . . . | Cha. hills ! | B.   | 1-2 ft.  | P. | 6-7 |
| iii. <i>L. angustifolium</i> , Huds. | <i>narrow-leaved F.</i>     | Cha. hills   | ♂ B. | 1-2 ft.  | P. | 7-8 |
| iv. <i>L. catharticum</i> , L. . . . | <i>purging F.</i> . . . .   | Heaths .     | W.   | 2-10 in. | A. | 6-9 |
| <b>Gen. II. Radiola, Gme.</b>        | <i>Flax seed.</i>           |              |      |          |    |     |
| i. <i>R. millegrana</i> , Sm. . .    | <i>Thyme-leaved F.</i>      | Damp pl.     | W.   | 1-4 in.  | A. | 7-8 |

## ORD. XVI.—MALVACEÆ.

|                                      |                          |            |       |          |    |     |
|--------------------------------------|--------------------------|------------|-------|----------|----|-----|
| <b>Gen. I. Malva, L.</b>             | <i>Mallow.</i>           |            |       |          |    |     |
| i. <i>M. moschata</i> , L. . . .     | <i>musk M.</i> . . . .   | Grav. pl.  | Ro.   | 2-3 ft.  | P. | 7-8 |
| ii. <i>M. sylvestris</i> , L. . . .  | <i>common M.</i> . . . . | Was. pl. . | ♂ Pu. | 2-3 ft.  | P. | 6-9 |
| iii. <i>M. rotundifolia</i> , L. . . | <i>dwarf M.</i> . . . .  | Was. pl. . | Li.   | 6-12 in. | P. | 6-9 |
| <b>Gen. II. Althæa, L.</b>           | <i>Marsh Mallow.</i>     |            |       |          |    |     |
| i. <i>A. officinalis</i> , L. . . .  | <i>common M.</i> . . . . | Mar. . .   | Ro.   | 2-3 ft.  | P. | 8-9 |
| ii. <i>A. hirsuta</i> , L. . . . .   | <i>hispid M.</i> . . . . | Cuxton !.  | Pu.   | 6-18 in. | A. | 6-7 |
| <b>Gen. III. Lavatera, L.</b>        | <i>Tree Mallow.</i>      |            |       |          |    |     |
| i. <i>L. arborea</i> , L. . . . .    | <i>Sea T.</i> . . . . .  | Sea rocs.  | Pu.   | 3-5 ft.  | B. | 7-9 |

## ORD. XVII.—TILIACEÆ.

|                                     |                            |         |      |     |     |     |
|-------------------------------------|----------------------------|---------|------|-----|-----|-----|
| <b>Gen. I. Tilia, L.</b>            | <i>Lime.</i>               |         |      |     |     |     |
| i. <i>T. parviflora</i> , Ehrh. . . | <i>small-leaved L.</i> . . | Woods . | y G. | . . | T.  | 7-8 |
| ii. <i>T. intermedia</i> , DC. . .  | <i>common L.</i> . . . .   | Woods . | y G. | . . | T.  | 6-7 |
| iii. <i>T. grandiflora</i> , Ehrh.  | <i>broad-leaved L.</i> . . | Woods . | y G. | . . | T.  | 6-7 |
| v. 2. <i>corallina</i> , Sm. . . .  | . . . . .                  | . . . . | . .  | . . | . . | . . |



ORD. XIV.—CARYOPHYLLACEÆ—*cont*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

2. *Densely tufted*—*Fl. st. short*—*Sep. gland.*  
 3. *Deep green*—*St. ls. broader*—*Hairs all gland.*

**Gen. XIV.**

- i. *Densely tufted*—*Ls. crowded, channelled*—*Fls. sol. sess.*

## ORD. XV.—LINACEÆ.

**Gen. I.**

- i. *Ann.*—*St. sol.*—*Ls. alt., lin.-lan.*—*Sep. ov., acute three-nerved, ciliate.*  
 ii. *Peren.*—*Sts. numerous*—*Ls. alt., lin.-acute*—*Sep. ob.-ov., five-ribbed, obt., glab.*  
 iii. *Peren.*—*Sts. numerous*—*Ls. alt., lin.-lanc.*—*Sep. ellip., three-ribbed, mucro.*  
 iv. *Ann.*—*St. much branched*—*Ls. opp., obl.*—*Sep. acumi. one-nerved.*

**Gen. II.**

- i. *St. repeatedly forked*—*Ls. ov. ent.*—*Fls. axill. and term, sol.*

## ORD. XVI.—MALVACEÆ.

**Gen. I.**

- i. *St. erect*—*Ls. reni. 5-7 cleft, lobes pinnfid.*—*Fr. hairy.*  
 ii. *St. ascend.*—*Ls. reni. 5-7 cleft, lobes cren.*—*Fr. glab.*  
 iii. *St. prost.*—*Ls. cord. 5-7 cleft, lobes cren.*—*Fr. hairy.*

**Gen. II.**

- i. *Ls. ent., five lobed, velvety*—*Fls. cymose, axill.*  
 ii. *St. hispid*—*Ls. long stalked, palmately lobed*—*Fls. solit.*

**Gen. III.**

- i. *St. woody*—*Ls. seven-angled, plaited, downy*—*Pedunc. axill., one-flowered.*

## ORD. XVII.—TILIACEÆ.

**Gen. I.**

- i. *Ls. small, glauc. beneath, with a woolly tuft in the axils of the nerves*—*Fr. ang., thin and brittle.*  
 ii. *Ls. glab. beneath, with a woolly tuft in the axils of the nerves*—*Fr. coriaceous, hairy, not ribbed.*  
 iii. *Ls. large, downy beneath*—*Pedunc. 3 fld.*—*Fr. downy, with 3-5 prominent ribs.*  
 2. *Bark of young twigs red.*

## ORD. XVIII.—HYPERICACEÆ.

| Botanical Name.                            | Common Name.                              | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|---|--------------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. I. Hypericum, L.</b><br>*          | <i>St. John's Wort,</i><br><i>&amp;c.</i> |                          |         |           |                |                       |
| i. <i>H. Androsæmum, L.</i>                | <i>common Tutsan.</i>                     | Thick. .                 | Y.      | 1-2 ft.   | P.             | 6-8                   |
| ii. <i>H. calycinum, L.</i> . .<br>*<br>A. | <i>large-flowered St. J.</i>              | Thick.! .                | Y.      | 10-15 in. | P.             | 7-9                   |
| iii. <i>H. perforatum, L.</i> . .          | <i>common St. J.</i> .                    | Thick. .                 | Y.      | 1-2 ft.   | P.             | 7-9                   |
| iv. <i>H. angustifolium.</i> . .           | <i>square-stalked St.</i>                 | Moi. pl. .               | Y.      | 1-2 ft.   | P.             | 7-9                   |
| v. 2. <i>H. quadrangulum, L.</i>           | <i>J.</i>                                 |                          |         |           |                |                       |
| a. <i>dubium, Leers.</i> . . .             | . . . .                                   | . . . .                  | . . . . | . . . .   | . . . .        | . . . .               |
| b. <i>tetrapterum, Fries.</i> .            | . . . .                                   | . . . .                  | . . . . | . . . .   | . . . .        | . . . .               |
| c. <i>bæticum, Boiss.</i> . . .            | . . . .                                   | . . . .                  | . . . . | . . . .   | . . . .        | . . . .               |
| v. <i>H. humifusum, L.</i> . .             | <i>trailing St. J.</i> . .                | Commons                  | Y.      | 4-10 in.  | P.             | 7-8                   |
| vi. <i>H. linariifolium, Vahl.</i>         | <i>linear-leaved St. J.</i>               | Corn. and<br>Jersey!     | Y.      | 6-12 in.  | P.             | 7-8                   |
| vii. <i>H. pulchrum, L.</i> . . .          | <i>small St. J.</i> . .                   | Commons                  | Y.      | 1-2 ft.   | P.             | 7-8                   |
| viii. <i>H. hirsutum, L.</i> . . .         | <i>hairy St. J.</i> . . .                 | Thick. .                 | Y.      | 1-3 ft.   | P.             | 7-8                   |
| ix. <i>H. montanum, L.</i> . .             | <i>bearded St. J.</i> . .                 | Thick. .                 | Y.      | 1-2 ft.   | P.             | 7-8                   |
| x. <i>H. elodes, L.</i> . . . .            | <i>Marsh St. J.</i> . .                   | Bogs . .                 | Y.      | 3-12 in.  | P.             | 7-8                   |

## ORD. XIX.—ACERACEÆ.

|                                   |                         |          |    |           |    |     |
|-----------------------------------|-------------------------|----------|----|-----------|----|-----|
| <b>Gen. I. Acer, L.</b>           | <i>Maple.</i>           |          |    |           |    |     |
| i. <i>A. campestre, L.</i> . .    | <i>common M.</i> . . .  | Hedges . | G. | 10-20 ft. | T. | 5-6 |
| ii. <i>A. pseudo-platanus, L.</i> | <i>Sycamore</i> . . . . | Woods .  | G. | 40-50 ft. | T. | 5-6 |

## ORD. XX.—GERANIACEÆ.

|  |                          |              |         |         |         |         |
|--|--------------------------|--------------|---------|---------|---------|---------|
| <b>Gen. I. Geranium, L.</b><br>*             | <i>Crane's-bill.</i>     |              |         |         |         |         |
| i. <i>G. sanguineum, L.</i> . .              | <i>bloody C.</i> . . . . | Rocky pl.! . | Cr.     | 1-2 ft. | P.      | 7-8     |
| v. 2. <i>Lancastriense, With.</i><br>*<br>A. | . . . .                  | . . . .      | . . . . | . . . . | . . . . | . . . . |
| ii. <i>G. phæum, L.</i> . . . .              | <i> dusky C.</i> . . . . | Thick. .     | Pu.     | 1-2 ft. | P.      | 6-7     |
| iii. <i>G. sylvaticum, L.</i> . .            | <i>Wood C.</i> . . . .   | Woods .      | δ Pu.   | 1-2 ft. | P.      | 6-7     |

## ORD. XVIII.—HYPERICACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

\* *Stamens in five sets.*

i. St. erect, shrubby—Ls. large, ov., blunt, sess.—Fls. in a term cyme.—Sty. three, recurved.

ii. St. creeping, shrubby—Ls. obl. sess.—Fls. sol., large—Sty. five, straight.

\* \* *Stamens in three sets.**A. Sepals with entire or toothed margins without glands.*

iii. St. two-edged—Ls. obl., obt., with pellucid dots and opaque veins—Sep. lanc., ent., erect.

v. 2. *Ls. strap-shaped.*

iv. St. four-angled—Ls. obl., with pellucid dots.

a. St. with four elevated lines—Ls. with pellucid veins—Pet. broad, ent.—Sep. spreading, recurved.

v. 2. *Ls. narrower—Sep. narrow, denticulate.*

b. St. with four wings—Fls. in compact many small flowered cymes—Sep. lanc., erect, acute.

c. Ls. with black glands beneath—Sep. ov., lanc., crenate (*Cornwall*).

v. St. weak, prost.—Ls. obl., glab.—Sep. unequal.

*B. Sepals with glandular margins.*

vi. St. erect, terete—Ls. lin., margins revolute—Sep. lanc., acute.

vii. St. erect, round, glab.—Ls. cord., amplex—Sep. ov.-obt.—Fls. tipped with red in bud.

viii. St. erect, hairy—Ls. ov.-obl., shortly stalked—Sep. lanc., acute.

ix. St. erect, glab.—Ls. ov., sess.—Sep. lanc. acute, with black glands—Fls. in dense cymes.

x. St. prost., rooting—Ls. orb., sess., hairy—Fls. few, pale, panicked.

## ORD. XIX.—ACERACEÆ.

## Gen. I.

i. Ls. five-lobed, crenate—Racemes erect.

ii. Ls. five-lobed, unequally serr.—Racemes pendulous.

## ORD. XX.—GERANIACEÆ.

## Gen. I.

\* *Pedunc., one-flowered.*

i. St. sub-erect—Ls. orb. 5-7 part, with trifid lobes.

v. 2. *St. decumb., tufted—Fls. pink (Walney Island).*\* \* *Pedunc. two-flowered.**A. Root perennial.*

ii. Ls. orb. 3-7 lobed, lobes acute, cut, serr.—Pet. waved, dingy purple.

iii. St. erect, corymb.—Ls. sub-pelt, seven-part, lobes cut and serr.—Pet. slightly notched.

ORD. XX.—GERANIACEÆ—*cont.*

| Botanical Name.                                 | Common Name.                | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|-----------------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| iv. <i>G. pratense</i> , <i>L.</i> . . .        | <i>blue Meadow C.</i> . .   | Thick. .                 | Pu.       | 1-3 ft.   | P.             | 6-7                   |
| v. <i>G. pyrenaicum</i> , <i>L.</i> . .         | <i>Mountain C.</i> . . .    | Past. . .                | Pu.       | 1-2 ft.   | P.             | 6-8                   |
| <i>B.</i>                                       |                             |                          |           |           |                |                       |
| vi. <i>G. rotundifolium</i> , <i>L.</i> . .     | <i>round-leaved C.</i> . .  | Was. pl..                | Pk.       | 6-12 in.  | A.             | 6-7                   |
| vii. <i>G. pusillum</i> , <i>L.</i> . . .       | <i>small-flowered C.</i>    | Was. pl..                | Ro.       | 6-18 in.  | A.             | 6-9                   |
| viii. <i>C. molle</i> , <i>L.</i> . . . .       | <i>Dove's-foot C.</i> . .   | Was. pl..                | Pk.       | 8-12 in.  | A.             | 4-8                   |
| ix. <i>G. dissectum</i> , <i>L.</i> . . . .     | <i>jagged-leaved C.</i> . . | Was. pl..                | R.        | 1-2 ft.   | A.             | 5-8                   |
| x. <i>G. columbinum</i> , <i>L.</i> . . .       | <i>long-stalked C.</i> . .  | Dry pl. .                | Ro.       | 1-2 ft.   | A.             | 6-7                   |
| xi. <i>G. Robertianum</i> , <i>L.</i> . .       | <i>Herb Robert</i> . . .    | Was. pl..                | Pk.       | 1-2 ft.   | A.             | 5-9                   |
| v. 2. <i>modestum</i> , <i>Ford.</i> . .        | . . . . .                   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 3. <i>purpureum</i> , <i>Forst.</i> . .      | . . . . .                   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| xii. <i>G. lucidum</i> , <i>L.</i> . . . .      | <i>shining C.</i> . . . .   | Rocks and<br>Walls.      | Ro.       | 6-18 in.  | A.             | 5-9                   |
| <b>Gen. II. <i>Erodium</i>, <i>L'Herit.</i></b> |                             |                          |           |           |                |                       |
| <i>Stork's-bill.</i>                            |                             |                          |           |           |                |                       |
| i. <i>E. maritimum</i> , <i>Sm.</i> . . .       | <i>Sea S.</i> . . . . .     | San. Sh.!                | Pk.       | 6-18 in.  | B.             | 5-9                   |
| ii. <i>E. cicutarium</i> , <i>Sm.</i> . . .     | <i>Hemlock S.</i> . . . .   | Was. pl..                | Ro.       | 6-18 in.  | B.             | 6-9                   |
| v. 2. <i>chærophyllum</i> , . . . .             | . . . . .                   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| iii. <i>E. moschatum</i> , <i>Sm.</i> . .       | <i>musky S.</i> . . . . .   | Was. pl..                | Pu.       | 1-2 ft.   | A.             | 6-7                   |

## ORD. XXI.—BALSAMINACEÆ.

|  |                            |            |    |         |    |     |
|--|----------------------------|------------|----|---------|----|-----|
| <b>Gen. I. <i>Impatiens</i>, <i>L.</i></b> |                            |            |    |         |    |     |
| <i>Balsam.</i>                             |                            |            |    |         |    |     |
| i. <i>I. fulva</i> , <i>Nutt.</i> . . . .  | . . . . .                  | Riv. bks.! | Y. | 2-3 ft. | A. | 8-9 |
| ii. <i>I. noli-me-tangere</i> , <i>L.</i>  | <i>yellow B.</i> . . . . . | Moi. Wds.! | Y. | 1-2 ft. | A. | 7-9 |

## ORD. XXII.—OXALIDACEÆ.

|   |                          |                           |    |          |    |     |
|---|--------------------------|---------------------------|----|----------|----|-----|
| <b>Gen. I. <i>Oxalis</i>, <i>L.</i></b>     |                          |                           |    |          |    |     |
| <i>Wood Sorrel.</i>                         |                          |                           |    |          |    |     |
| i. <i>O. acetosella</i> , <i>L.</i> . . . . | <i>common W.</i> . . . . | Woods .                   | W. | 3-6 in.  | P. | 5-6 |
| ii. <i>O. corniculata</i> , <i>L.</i> . . . | <i>yellow W.</i> . . . . | Waste pl.,<br>S. of Eng.! | Y. | 6-18 in. | A. | 6-9 |
| iii. <i>O. stricta</i> , <i>L.</i> . . . .  | . . . . .                | Waste pl.                 | Y. | 6-18 in. | A. | 6-9 |

## ORD. XXIII.—CELASTRACEÆ.

|   |                          |          |      |          |    |     |
|---|--------------------------|----------|------|----------|----|-----|
| <b>Gen. I. <i>Euonymus</i>, <i>L.</i></b> |                          |          |      |          |    |     |
| <i>Spindle tree.</i>                      |                          |          |      |          |    |     |
| i. <i>E. Europæus</i> , <i>L.</i> . . .   | <i>common S.</i> . . . . | Hedges . | g W. | 5-20 ft. | T. | 5-6 |

ORD. XX.—GERANIACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- iv. St. erect—Ls. orb. 5-7 part; lobes lacin.; seg. acute—Pet. slightly notched—Fr. stalk reflexed.
- v. St. straggling—Ls. reni., 5-7 part, lobes obt., trifid—Pet. deeply notched—Root fusi.
- B. Root annual.*
- vi. Pet. entire—Caps. keeled, smooth, hairs spreading—Seeds dotted.
- vii. Pet. notched—Caps. keeled, hairs adpressed—Seeds smooth.
- viii. Pet. notched—Caps. wrinkled, glab.—Seeds smooth.
- ix. Pet. notched—Caps. even, hairy—Seeds pitted—Seg. of ls. lin.—Fls. shortly stlkd.
- x. Pet. entire—Caps. glab.—Seeds dotted—Fls. with long stalks.
- xi. Pet. entire—Caps. transversely wrinkled, downy—Seeds smooth—Ls. tern. or quin., with pinnfid. lfts.
- v. 2. *Glabrous—Sep. and pedi. glandular hairy.*
- v. 3. *Like Var. 2, but leaves finely divided.*
- xii. Pet. ent., ob.-ov.—Caps. reticulate—Seeds smooth—St. and ls. glab., spreading, tinged with red.

## Gen. II.

- i. Pedunc. 1-2 flowered—Ls. ent. ov.-cord—Pet. small or o.
- ii. Pedunc. many-flowered—Ls. pinn., lfts pinnfid.—Stip. lanc.
- v. 2. *Lfts. with more divided and more acute seg.—Fls. larger and more numerous. (A very variable plant.)*
- iii. Larger than last—Lfts. less deeply and irregularly cut—Stip. ovate.

## ORD. XXI.—BALSAMINACEÆ.

## Gen. I.

- i. Ls. ac.—tip of closely recurved spur notched.
- ii. Ls. obt.—tip. of loosely recurved spur ent.

## ORD. XXII.—OXALIDACEÆ.

## Gen. I.

- i. Stemless—Ls. radi., trifol., long-stalked—Pedunc. one-flowered.
- ii. St. branched, hairy; branches procumb.—Pedunc. two-flowered, shorter than ls.]
- iii. St. erect, with runners at base—Pedunc. many-flowered, longer than ls.—Stip. o.]

## ORD. XXIII.—CELASTRACEÆ.

## Gen. I.

- i. Ls. ovate, lanc., serr.—Fls. four cleft, umbellate.

## ORD. XXIV.—RHAMNACEÆ.

| Botanical Name.                  | Common Name.            | Soil<br>or<br>Situation. | Colour. | Growth   | Dura-<br>tion. | Time of<br>flowering. |
|----------------------------------|-------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. I. Rhamnus, L.</b>       | <i>Buckthorn.</i>       |                          |         |          |                |                       |
| i. <i>R. catharticus, L. . .</i> | <i>common B. . . .</i>  | Thick. .                 | y G.    | 5-10 ft. | Shb.           | 5-7                   |
| ii. <i>R. Frangula, L. . . .</i> | <i>Alder B. . . . .</i> | Thick. .                 | g W.    | 5-10 ft. | Shb.           | 5-7                   |

## ORD. XXV.—LEGUMINOSÆ.

|                                     |   |                       |     |          |      |      |
|-------------------------------------|---|-----------------------|-----|----------|------|------|
| <b>Gen. I. Sarothamnus,</b>         | <i>Broom.</i>                             |                       |     |          |      |      |
| <i>Wimm.</i>                        |   |                       |     |          |      |      |
| i. <i>S. scoparius, Koch. .</i>     | <i>common B. . . .</i>                    | Heaths .              | Y.  | 2-6 ft.  | Shb. | 5-6  |
| <b>Gen. II. Ulex, L.</b>            | <i>Furze, Gorse.</i>                      |                       |     |          |      |      |
| i. <i>U. Europæus, L. . .</i>       | <i>common F. or G.</i>                    | Heaths .              | Y.  | 2-5 ft.  | Shb. | 2-7  |
| v. 2. <i>strictus, Mack. . .</i>    | <i>Irish F. . . . .</i>                   | I.                    | Y.  | 1-2 ft.  | Shb. | 7-11 |
| ii. <i>U. nanus, Forst. . .</i>     | <i>dwarf F. . . . .</i>                   | Heaths, S.<br>of E.   | Y.  | 1-2 ft.  | Shb. | 7-11 |
| v. 2. <i>Gallii, Planch. . .</i>    | . . . . .                                 | Heaths,<br>W. of E.   | . . | . .      | . .  | . .  |
| <b>Gen. III. Genista, L.</b>        | <i>Green Weed.</i>                        |                       |     |          |      |      |
| i. <i>G. tinctoria, L. . . .</i>    | <i>Dyer's G. . . . .</i>                  | Thick. .              | Y.  | 1-2 ft.  | Shb. | 7-9  |
| v. 2. <i>humifusa, Syme. . .</i>    | . . . . .                                 | Heaths!               | Y.  | 6-12 in. | Shb. | 5-9  |
| ii. <i>G. pilosa, L. . . . .</i>    | <i>hairy G. . . . .</i>                   | Heaths .              | Y.  | 1-2 ft.  | Shb. | 5-6  |
| iii. <i>G. anglica, L. . . . .</i>  | <i>Needle G. or Petty<br/>Whin.</i>       | Heaths .              | Y.  | 1-2 ft.  | Shb. | 5-6  |
| <b>Gen. IV. Ononis, L.</b>          | <i>Rest Harrow.</i>                       |                       |     |          |      |      |
| i. <i>O. arvensis, L. . . .</i>     | <i>common R. . . . .</i>                  | Heaths .              | Ro. | 1-2 ft.  | P.   | 6-9  |
| ii. <i>O. spinosa, L. . . . .</i>   | <i>spiny R. . . . .</i>                   | Heaths .              | Ro. | 6-12 in. | P.   | 6-9  |
| iii. <i>O. reclinata, L. . . .</i>  | <i>smallspreading R.</i>                  | Sea cl.!              | Ro. | 2-3 ft.  | A.   | 6-7  |
| <b>Gen. V. Anthyllis, L.</b>        | <i>Kidney Vetch.</i>                      |                       |     |          |      |      |
| i. <i>A. vulneraria, L. . .</i>     | <i>common K., or<br/>Ladies' fingers.</i> | Dry pas.              | Y.  | 6-16 in. | P.   | 6-8  |
| v. 2. <i>Dillenii, Schultz. .</i>   | . . . . .                                 | S. of E.!             | R.  | . .      | . .  | . .  |
| <b>Gen. VI. Medicago, L.</b>        | <i>Medick.</i>                            |                       |     |          |      |      |
| * [i. <i>M. sativa, L. . . . .</i>  | <i>purple M., or Lu-<br/>cerne.</i>       | Fields .              | Pu. | 1-2 ft.  | P.   | 6-7  |
| ii. <i>M. falcata, L. . . . .</i>   | <i>yellow M. . . . .</i>                  | Dry bks.!             | Y.  | 6-24 in. | P.   | 6-7  |
| v. 2. <i>sylvestris, Fries. . .</i> | . . . . .                                 | Was. pl.              | Y.  | 6-24 in. | A.   | 5-8  |
| iii. <i>M. lupulina, L. . . .</i>   | <i>black M., or Non-<br/>such.</i>        | Was. pl.              | Y.  | 6-24 in. | A.   | 5-8  |
| iv. <i>M. maculata, Sibb. . .</i>   | <i>spotted M. . . . .</i>                 | Past. .               | Y.  | 6-24 in. | A.   | 5-8  |
| v. <i>M. denticulata, Willd.</i>    | <i>reticulated M</i>                      | Fie. E.<br>& S. of E. | Y.  | 6-24 in. | A.   | 5-8  |

## ORD. XXIV.—RHAMNACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. Branches spinous—Ls. ov., serr.—Fls. four-cleft.
- ii. Branches unarmed—Ls. ob.-ov., ent.—Fls. five-cleft.

## ORD. XXV.—LEGUMINOSÆ.

## Gen. I.

- i. St. branched, ang., green—Ls. tern. ; lfts. ob.-ov. silky—Fls. large, on short pedicels.

## Gen. II.

- i. St. erect—Cal. with lax ov. bracts, and spr. hairs—Wings longer than keel—Spines rigid.
- v. 2. *Branches very erect—Spines soft (Co. Down, I.).*
- ii. St. procumb.—Cal. with minute bracts and adpr. hairs—Wings shorter than keel—Spines weak, deflexed.
- v. 2. *More erect—Wings rather longer than keel, curved—Primary spines strong.*

## Gen. III.

- i. St. erect, glab.—Ls. lanc.—Rac. slender—Pods glab.
- v. 2. *St. procumb.—Ls. ov.—Cal. and pods hairy (Kynance Cove, Cornwall).*
- ii. St. procumb., woody—Ls. lanc., obt.—Rac. short, leafy—Pods hairy.
- iii. St. ascend, spinous—Ls. ov.-lanc.—Fls. sol., axill.—Pods glab.

## Gen. IV.

- i. St. procumb., unarmed, hairy all round—Pods erect, ov. shorter than cal.
- ii. St. erect, spinous, with two rows of hairs—Pods erect, ov. longer than cal.
- iii. St. ann., spreading, hairy—Pods reflexed, cylind.—(*Alderney, Galloway*).

## Gen. V.

- i. St. ascend.—Ls. pinn. ; lfts. unequal—Fls. capit.
- v. 2. *Smaller—Fls. red—Involucral ls. longer.*

## Gen. VI.

\* *Pods glabrous.*

- i. St. erect—Fls. rac.—Pods twisted two or three times.]
- ii. St. decumb., slightly hairy—Fls. rac.—Pods falcate.
- v. 2. *Fls. turning to dark green—Pods semicircular.*
- iii. St. procumb.—Fls. in a dense ovate spike—Pods reni., veiny, black when ripe.  
\* \* *Pods bristly.*
- iv. St. procumb.—Lfts. ob.-cord., often spotted—Pods compactly spiral, with four ridges and a central furrow—Stip. dent.
- v. St. prost.—Pods loosely spiral, deeply reticu. and spin.—Stip. lacin.

## ORD. XXV.—LEGUMINOSÆ--cont.

| Botanical Name.                        | Common Name.                        | Soil<br>or<br>Situation.        | Colour.      | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|-------------------------------------|---------------------------------|--------------|-----------|----------------|-----------------------|
| v. 2. <i>apiculata</i> , Willd. .      |                                     |                                 |              |           |                |                       |
| vi. <i>M. minima</i> , L. . . .        | <i>little Bur-weed</i> .            | San. fie.!                      | Y.           | 6-10 in.  | A.             | 5-7                   |
| <b>Gen. VII. Melilotus,</b>            | <i>Melilot.</i>                     |                                 |              |           |                |                       |
| <i>Tourn.</i>                          |                                     |                                 |              |           |                |                       |
| i. <i>M. officinalis</i> , L. . .      | <i>common M.</i> . . .              | Fields. .                       | Y.           | 2-3 ft.   | B.             | 6-8                   |
| ii. <i>M. arvensis</i> , Wallr. .      | <i>Field M.</i> . . . .             | Fields. .                       | Y.           | 2-3 ft.   | B.             | 6-8                   |
| iii. <i>M. alba</i> , Lam. . . .       | <i>white M.</i> . . . .             | Was. pl.                        | W.           | 2-3 ft.   | B.             | 7-8                   |
| <b>Gen. VIII. Trigonella, L.</b>       | <i>Fenugreek.</i>                   |                                 |              |           |                |                       |
| i. <i>T. ornithopodioides</i> ,<br>DC. | . . . .                             | San. pas.                       | W. or<br>Pk. | 2-8 in.   | A.             | 6-7                   |
| <b>Gen. IX. Trifolium, L.</b>          | <i>Clover, Trefoil.</i>             |                                 |              |           |                |                       |
| <i>A.</i>                              |                                     |                                 |              |           |                |                       |
| i. <i>T. subterraneum</i> , L. .       | <i>subterranean T.</i> .            | Dry. pas.                       | Cr.          | 6-18 in.  | A.             | 5-6                   |
| ii. <i>T. glomeratum</i> , L. .        | <i>smooth round-<br/>headed T.</i>  | Dry. pas.<br>E. & S. of<br>Eng. | Pu.          | 6-12 in.  | A.             | 6-7                   |
| iii. <i>T. strictum</i> , L. . .       | <i>upright round-<br/>headed T.</i> | Roc. bks.!<br>Corn. &<br>Jer.   | Ro.          | 2-6 in.   | A.             | 6-7                   |
| iv. <i>T. suffocatum</i> , L. . .      | <i>suffocated T.</i> . .            | San. sh.!<br>E. & S. of<br>Eng. | W.           | 1-3 in.   | A.             | 6-7                   |
| v. <i>T. repens</i> , L. . . . .       | <i>Dutch C.</i> . . . .             | Past. . .                       | W.           | 3-18 in.  | P.             | 5-9                   |
| [vi. <i>T. hybridum</i> , L. . . .     | . . . . .                           | . . . . .                       | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| v. 2. <i>elegans</i> , Savi. . . .     | . . . . .                           | . . . . .                       | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| vii. <i>T. fragiferum</i> , L. . .     | <i>Strawberry T.</i> .              | Fields. .                       | Ro.          | 6-12 in.  | P.             | 7-8                   |
| <i>B.</i>                              |                                     |                                 |              |           |                |                       |
| viii. <i>T. arvense</i> , L. . . .     | <i>Hare's-foot T.</i> . .           | Dry pas.                        | p Pk.        | 6-12 in.  | A.             | 7-9                   |
| ix. <i>T. Bocconi</i> , Savi. . .      | <i>Boccone's T.</i> . . .           | Dry pl.!<br>Corn.               | W.           | 2-4 in.   | A.             | 7-8                   |
| [x. <i>T. incarnatum</i> , L. . .      | <i>crimson C.</i> . . . .           | Fie. . . .                      | Sc.          | 6-18 in.  | A.             | 6-7                   |
| v. 2. <i>Molinerii</i> , Balb. . .     | . . . . .                           | . . . . .                       | p Y.         | 3-6 in.   | . .            | . .                   |
| <i>**</i>                              |                                     |                                 |              |           |                |                       |
| xi. <i>T. ochroleucum</i> , L. .       | <i>sulphur-coloured<br/>T.</i>      | Dry pas.<br>E. of Eng.!         | Y.           | 6-18 in.  | P.             | 6-8                   |
| xii. <i>T. pratense</i> , L. . . .     | <i>common purple C.</i>             | Mead. .                         | Pu.          | 6-18 in.  | P.             | 5-9                   |
| xiii. <i>T. medium</i> , L. . . .      | <i>zigzag T.</i> . . . .            | Mead. .                         | Pu.          | 6-18 in.  | P.             | 5-9                   |
| xiv. <i>T. maritimum</i> , Huds.       | <i>Teasel-headed T.</i>             | Salt mar.!                      | p R.         | 6-18 in.  | A.             | 6-7                   |
| xv. <i>T. striatum</i> , L. . . .      | <i>soft-knotted T.</i> . .          | Dry pas.                        | Ro.          | 4-12 in.  | A.             | 6-7                   |
| xvi. <i>T. scabrum</i> , L. . . .      | <i>rough-rigid T.</i> . .           | San. fie.!                      | W.           | 4-10 in.  | A.             | 5-7                   |



## CHARACTERISTICS OF SPECIES AND VARIETIES.

v. 2. *Spines of pod short, straight.*

- vi. Downy—Pods compactly spiral, glob., spinous; the four spires narrowly keeled—Stip. half cord., almost ent.

## Gen. VII.

- i. Fls. yell.—Pet. all equal—Pods acute, hairy.  
 ii. Fls. yell.—Wings and standard longer than keel—Pods ribbed, obt., glab.]  
 iii. Fls. W.—Standard longer than keel and wings—Pods acute, glab

## Gen. VIII.

- i. St. decumb., glab.—Lfts. ob.-cord., toothed—Pedunc. axill., three-flowered.

## Gen. IX.

*A. Throat of the cal. naked—Fls. white or red.*

- i. St. most underground—Heads 2-5 fld. hairy, stalked in fr., with abortive palm calices which fold over fr.  
 ii. St. procumb.—Heads glob., sess., term. and axill.—Cal. ten-veined, teeth ov., reflexed, glab., shorter than coroll. and contracted at base.  
 iii. St. ascending—Heads glob. term. and axill. shortly stalked—Cal. teeth subulate spread.—Lfts. lin.-lanc.  
 iv. St. underground—Heads dense, sess., axill.—Cal. membr., hairy, scarcely striate; its teeth lanc., recurved, longer than cor.  
 v. St. creeping—Heads glob., axill., long-stalked, umbell. at length deflex.—Pods four-seeded.  
 vi. Similar, but has an erect st. and a two-seeded pod (not native).  
 v. 2. *St. weak, decumb.—Heads smaller.*  
 vii. St. creeping—Heads axill., long-stalked—Cal. much infl. after flowering.  
*B. Throat of calyx hairy.*  
 \* *Heads cylindric in flower or seed.*  
 viii. St. branched, sub-erect—Heads term., stalked, very hairy—Cal. teeth plumose, longer than cor.  
 ix. St. erect—Heads term. and axill., sess., usually in pairs—Cal. teeth erect, as long as cor.  
 x. St. erect—Heads sol., term., stalked—Cal. teeth shorter than cor.—Fls. scarlet.]  
 v. 2. *Fls. pale yellow (Lizard and Kynance Cove, Corn.; native).*

\* \* *Heads ovate.*

- xi. St. erect—Heads term., sol., stalked—Lower tooth of cal. very long—Fls. sulphur-coloured.  
 xii. St. sub-erect—Heads term., dense, sess.—Cal. hairy, lower tooth longer—Stip. ovate.  
 xiii. St. straggling, zigzag—Heads term., sol., stalked—Cal. glab., teeth hairy—Stip. lanc.  
 xiv. St. rigid, sub-erect—Heads term., shortly stalked—Cal. teeth rigid, subu., leafy in fr., lower one longer and three-nerved—Stip. subu., very long.  
 xv. St. procumb.—Heads term. and axill., sess.—Cal. furrowed, densely hairy, infla. in fr.; its teeth straight.  
 xvi. St. procumb.—Heads term. and axill., sess.—Cal. cylind. in fr.: its teeth unequal, rigid, recurved.

## ORD. XXV.--LEGUMINOSÆ—cont.

| Botanical Name.                                    | Common Name.                 | Soil<br>or<br>Situation.         | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|------------------------------|----------------------------------|-----------|-----------|----------------|-----------------------|
| [xvii. <i>T. stellatum</i> , <i>L.</i> . . .<br>C. | <i>Starry-headed T.</i>      | Sea sh.<br>Shoreham.             | C.        | 4-12 in.  | A.             | 6-8                   |
| xviii. <i>T. procumbens</i> , <i>L.</i> . .        | <i>Hop T.</i> . . . . .      | Past. . .                        | Y.        | 6-18 in.  | A.             | 6-8                   |
| xix. <i>T. minus</i> , <i>Sm.</i> . . . .          | <i>lesser yell. T.</i> . . . | Past. . .                        | Y.        | 10-20 in. | A.             | 6-8                   |
| xx. <i>T. filiforme</i> , <i>L.</i> . . . .        | <i>slender yell. T.</i> . .  | Dry pas. !                       | Y.        | 4-8 in.   | A.             | 6-7                   |
| Gen. X. <i>Lotus</i> , <i>L.</i>                   | <i>Bird's-foot Trefoil.</i>  |                                  |           |           |                |                       |
| i. <i>L. corniculatus</i> , <i>L.</i> . . .        | <i>common B.</i> . . . .     | Dry pl. .                        | Y.        | 4-18 in.  | P.             | 7-8                   |
| v. 2. <i>crassifolius</i> . . . . .                | . . . . .                    | . . . . .                        | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 3. <i>villosus</i> . . . . .                    | . . . . .                    | . . . . .                        | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. 4. <i>tenuis</i> , <i>Kit.</i> . . . .          | . . . . .                    | . . . . .                        | . . . . . | . . . . . | . . . . .      | . . . . .             |
| ii. <i>L. major</i> , <i>Scop.</i> . . . .         | <i>narrow-leaved B.</i>      | Moi. med.                        | Y.        | 6-24 in.  | P.             | 7-8                   |
| iii. <i>L. angustissimus</i> , <i>L.</i> . .       | <i>slender B.</i> . . . . .  | Dry banks<br>S. of Eng. !        | Y.        | 2-6 in.   | A.             | 6-8                   |
| a. <i>diffusus</i> , <i>Sm.</i> . . . .            | . . . . .                    | . . . . .                        | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. <i>hispidus</i> , <i>Desf.</i> . . . .          | . . . . .                    | . . . . .                        | . . . . . | . . . . . | . . . . .      | . . . . .             |
| Gen. XI. <i>Astragalus</i> , <i>L.</i>             | <i>Milk-vetch.</i>           |                                  |           |           |                |                       |
| i. <i>A. glycyphyllos</i> , <i>L.</i> . . .        | <i>sweet M.</i> . . . . .    | Thick. .                         | Y.        | 2-3 ft.   | P.             | 6-9                   |
| ii. <i>A. hypoglottis</i> , <i>L.</i> . . .        | <i>purple Mount M.</i>       | Cha. pl.<br>E. & N.<br>of Eng. ! | Pu.       | 2-6 in.   | P.             | 6-7                   |
| iii. <i>A. alpinus</i> , <i>L.</i> . . . .         | <i>Alpine M.</i> . . . . .   | Sc. mount. !                     | W.        | 2-4 in.   | P.             | 7                     |
| Gen. XII. <i>Oxytropis</i> , <i>L.</i>             | <i>Oxytropis.</i>            |                                  |           |           |                |                       |
| i. <i>O. Uralensis</i> , <i>DC.</i> . . .          | <i>hairy Mount O.</i> . .    | Sc. mount. !                     | Pu.       | 4-6 in.   | P.             | 6-7                   |
| ii. <i>O. campestris</i> , <i>DC.</i> . .          | <i>yell Mount O.</i> . . .   | Sc. mount. !                     | Y.        | 4-8 in.   | P.             | 7-8                   |
| Gen. XIII. <i>Ornithopus</i> , <i>L.</i>           | <i>Bird's-foot.</i>          |                                  |           |           |                |                       |
| i. <i>O. perpusillus</i> , <i>L.</i> . . .         | <i>common B.</i> . . . .     | Dry pl. .                        | Y.        | 6-18 in.  | A.             | 5-7                   |
| Gen. XIV. <i>Arthrolobium</i> ,<br><i>Desv.</i>    | <i>Joint-vetch.</i>          |                                  |           |           |                |                       |
| i. <i>A. ebracteatum</i> , <i>DC.</i> . .          | <i>Sand V.</i> . . . . .     | Sandy gro.<br>C. Isl. !          | Y.        | 6-18 in.  | A.             | 6-8                   |
| Gen. XV. <i>Hippocrepis</i> , <i>L.</i>            | <i>Horseshoe-vetch.</i>      |                                  |           |           |                |                       |
| i. <i>H. comosa</i> , <i>L.</i> . . . . .          | <i>tufted H.</i> . . . . .   | Chal. pas.                       | Y.        | 6-18 in.  | P.             | 5-8                   |
| Gen. XVI. <i>Onobrychis</i> ,<br><i>Tourn.</i>     | <i>Sain-foin.</i>            |                                  |           |           |                |                       |
| i. <i>O. sativa</i> , <i>Lam.</i> . . . .          | <i>common S.</i> . . . .     | Chal. pas.                       | Ro.       | 1-2 ft.   | P.             | 6-7                   |
| Gen. XVII. <i>Vicia</i> , <i>L.</i>                | <i>Vetch, Tare.</i>          |                                  |           |           |                |                       |
| i. <i>V. Orobus</i> , <i>DC.</i> . . . .           | <i>Wood bitter V.</i> . .    | Roc. pl.<br>N. of Eng. !         | puW.      | 1-2 ft.   | P.             | 5-6                   |

ORD. XXV.—LEGUMINOSÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**xvii.** St. procumb.—Heads term., stalked—Cal. hairy ; its teeth long, leafy, spread in a stellate manner.]

*C. Throat of calyx naked—Heads long-stalked—Fls. bright yellow.*

**xviii.** Heads large, dense, many-flowered—Standard furrowed when dry.

**xix.** Heads 10-15 flowered on rigid pedunc.—Standard smooth, trunc.

**xx.** Heads 2-6 flowered on capill. pedunc.—Standard deeply notched.

**Gen. X.**

**i.** St. decumb.—Ls. obov., glab.—Cal. teeth erect in bud ; two upper converging—Claw of standard ob.-ov.

**v.** 2. *St. tufted—Lfts. fleshy (sea-side).*

**v.** 3. *Ls. and stem very hairy.*

**v.** 4. *St. filiform—Lfts. lin.-lanc.—Fls. small.*

**ii.** St. erect—Ls. ob.-ov.—Cal. teeth spreading in bud, two upper diverging—Claw of standard linear.

**iii.** St. decumb.—Ls. hairy or silky, ov.-lanc.—Cal.-teeth erect in bud, all subu.

**a.** Heads 1-2 flowered—Pods six times longer than cal.

**b.** Heads 3-4 flowered—Pods rugose, twice as long as calyx.

**Gen. XI.**

**i.** St. zigzag, glab.—Ls. longer than pedunc.—Fls. yell.—Pods lin., glab.

**ii.** St. prost., hairy—Ls. shorter than pedunc.—Fls. purple—Pods ov., erect, hairy.

**iii.** St. slender, ascend. pubesc.—Ls. as long as pedunc.—Fls. white, tipped purple—Pods obl., pend., hairy.

**Gen. XII.**

**i.** Stemless—Ls. shorter than pedunc.—Fls. purple.

**ii.** St. very short, prost.—Ls. equally pedunc.—Fls. yellow.

**Gen. XIII.**

**i.** St. prost.—Ls. pinn.; lfts. ellip., downy—Fls. small white veined crims.

**Gen. XIV.**

**i.** St. prost., fili.—Ls. pinn. ; lfts. ellip.-obl., glauc.—Fls. yell., veined crims.

**Gen. XV.**

**i.** St. prost., glab.—Ls. pinn. ; lfts. ob.-ov., ellip.—Fls. umbell.

**Gen. XVI.**

**i.** St. erect, stout—Lfts. ellip.-obl., mucro.—Fls. in dense rac.

**Gen. XVII.**

\* *Lfts. many—Pedunc. long, many-flowered—Calyx gibbous at base.*

**i.** St. asc.—Lfts. ov.-obl., acute, hairy—Tend. o.—Stip. semi-sagitt., slightly toothed.

ORD. XXV.—LEGUMINOSÆ—*cont.*

| Botanical Name.                                       | Common Name.                              | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|-----------|-----------|----------------|-----------------------|
| ii. <i>V. sylvatica</i> , <i>L.</i> . . .             | <i>Wood V.</i> . . . .                    | Roc. pl. .               | W.        | Cli.      | P.             | 6-8                   |
| iii. <i>V. Cracca</i> , <i>L.</i> . . . .<br>* *      | <i>tufted V.</i> . . . .                  | Bushy pl.                | B.        | Cli.      | P.             | 6-8                   |
| iv. <i>V. bithynica</i> , <i>L.</i> . . .             | <i>rough-podded purple V.</i>             | Bushy pl.!               | p P.      | 1-2 ft.   | P.             | 7-8                   |
| v. 2. <i>angustifolia</i> , <i>Syme.</i>              | . . . . .                                 | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. <i>V. lathyroides</i> , <i>L.</i> . . .<br>* * *   | <i>Spring V.</i> . . . .                  | Dry pas.                 | Pu.       | 6-8 in.   | A.             | 4-6                   |
| vi. <i>V. sativa</i> , <i>L.</i> . . . .              | <i>common V.</i> . . . .                  | Fields. .                | p Pu.     | 6-18 in.  | A.             | 5-6                   |
| v. 2. <i>angustifolia</i> , <i>Roth.</i>              | . . . . .                                 | Dry pl. .                | Pu.       | 4-6 in.   | . . . . .      | . . . . .             |
| v. 3. <i>Bobartii</i> , <i>Forst.</i> . .             | . . . . .                                 | Dry pl. .                | Pu.       | 4-6 in.   | . . . . .      | . . . . .             |
| vii. <i>V. lutea</i> , <i>L.</i> . . . .              | <i>rough-podded yell. V.</i>              | Sea side<br>Rocks!       | Y.        | 6-18 in.  | A.             | 6-8                   |
| viii. <i>V. sepium</i> , <i>L.</i> . . . .<br>* * * * | <i>Bush V.</i> . . . .                    | Hedges                   | p Pu.     | 2-3 ft.   | P.             | 5-8                   |
| ix. <i>V. hirsuta</i> , <i>Koch.</i> . .              | <i>hairy T.</i> . . . .                   | Was. pl..                | p B.      | 1-2 ft.   | A.             | 6-8                   |
| x. <i>V. tetrasperma</i> , <i>Moench.</i>             | <i>slender T.</i> . . . .                 | Was. pl..                | p B.      | 1-2 ft.   | A.             | 6-8                   |
| v. 2. <i>gracilis</i> , <i>Lois.</i> . . .            | . . . . .                                 | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| Gen. XVIII. <i>Lathyrus</i> , <i>L.</i><br>*          | <i>Everlasting Pea,<br/>Bitter Vetch.</i> |                          |           |           |                |                       |
| i. <i>L. Aphaca</i> , <i>L.</i> . . . .               | <i>yell. Vetch</i> . . .                  | San. fie.!               | Y.        | 1-3 ft.   | A.             | 6-7                   |
| ii. <i>L. Nissolia</i> , <i>L.</i> . . . .<br>* *     | <i>crimson V., or<br/>Grass-Vetch.</i>    | Bushy pl.                | Cr.       | 1-2 ft.   | A.             | 5-6                   |
| iii. <i>L. hirsutus</i> , <i>L.</i> . . .             | <i>rough-podded V.</i>                    | Fields! .                | Pu.       | 2-4 ft.   | A.             | 6-7                   |
| iv. <i>L. pratensis</i> , <i>L.</i> . . .             | <i>Meadow V.</i> . . .                    | Mead. .                  | Y.        | 1-2 ft.   | P.             | 6-9                   |
| v. <i>L. sylvestris</i> , <i>L.</i> . . .             | <i>narrow-leaved E.</i>                   | Thick.!                  | g Pu.     | 3-6 ft.   | P.             | 6-8                   |
| [vi. <i>L. tuberosus</i> , <i>L.</i> . . .            | <i>Earth-nut Pea</i> .                    | Corn fie.                | Cr.       | 2-4 ft.   | P.             | 6-8                   |
| * * *   |   |                          |           |           |                |                       |
| vii. <i>L. palustris</i> , <i>L.</i> . . .            | <i>blue Marsh V.</i> .                    | Bog. pl.!                | p Pu.     | 2-4 ft.   | P.             | 6-8                   |
| viii. <i>L. maritimus</i> , <i>Bigel.</i>             | <i>Sea-side E.</i> . . .                  | Sea sh. .                | Pu.       | 1-3 ft.   | P.             | 7-8                   |
| v. 2. <i>acutifolius</i> , <i>Bab.</i> . .<br>* * * * | . . . . .                                 | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| ix. <i>L. macrorrhizus</i> , <i>Wim.</i>              | <i>tuberous B.</i> . . .                  | Thick. .                 | g Pu.     | 6-12 in.  | P.             | 5-7                   |
| v. 2. <i>tenuifolius</i> , <i>Roth.</i> .             | . . . . .                                 | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| x. <i>L. niger</i> , <i>L.</i> . . . .                | <i>black B.</i> . . . .                   | Sco. rocs.               | Pu.       | 1-2 ft.   | P.             | 6-7                   |

## ORD. XXVI.—ROSACEÆ.

|   |                              |                     |           |           |           |           |
|---|------------------------------|---------------------|-----------|-----------|-----------|-----------|
| Gen. I. <i>Prunus</i> , <i>L.</i>       | <i>Plum, Cherry, &amp;c.</i> |                     |           |           |           |           |
| i. <i>P. communis</i> , <i>L.</i> . . . | . . . . .                    | Copses &<br>hedges. | W.        | 3-8 ft.   | T.        | 3-4       |
| a. <i>spinosa</i> , <i>L.</i> . . . .   | <i>Sloe, Blackthorn</i>      | . . . . .           | . . . . . | . . . . . | . . . . . | . . . . . |
| b. <i>insititia</i> , <i>L.</i> . . . . | <i>Bullace</i> . . . . .     | . . . . .           | . . . . . | . . . . . | . . . . . | . . . . . |

## ORD. XXV.—LEGUMINOSÆ—cont.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- ii. St. climb.—Lfts. ellip.-obl., mucro., glab.—tend. branched—Stip. lunate, deeply toothed.
- iii. St. climb.—Lfts. lanc., pubes.—tend. branched—Stip. semi-sagitt. ent.  
\* \* *Lfts. few—Calyx equal at base.*
- iv. St. climb., glab.—Lfts. 1-2 pair, lanc.—Tend. branched—Pods rough.
- v. 2. *Lfts. lin. lanc.*
- v. St. spread, hairy—Lfts. 2-3 pair, retuse—Tend o.—Pods glab.  
\* \* \* *Lfts. many—Pedunc. short, few flowered—Calyx gibbous at base.*
- vi. St. trail—Lfts. ellip.-lanc., retuse—Fls. (1-2) axill., sess.—Stip. toothed, spotted—Pods spreading.
- v. 2. *St. slender—Lfts of upper ls. lin. lanc.—Fls. in pairs.*
- v. 3. *St. slender, prost.—Lfts of upper ls. lin.—Fls. sol.*
- vii. St. tufted, prost.—Lfts. ellip.-lanc.—Fls. sol., sess., cal. teeth unequal—Pods reflexed, hairy.
- viii. St. climb.—Fls. in sess. racemes—Pods erect, glab.  
\* \* \* \* *Lfts. many—Pedunc. long, few-flowered.*
- ix. Lfts. 6-8 pair—Pedunc. 1-6 flowered—Pods two seeded, hairy.
- x. Lfts. 3-6 pair—Pedunc. 1-2 flowered as long as ls.—Pods four-seeded glab.
- v. 2. *Lfts. 3-4 pair acute—Pedunc. 1-4 flowered, longer than ls.—Pods 5-8 seeded.*

## Gen. XVIII.

- \* *Lfts. none.*
- i. St. climb., tendrilled—Stip. large, leafy, cord-sagitt.
- ii. St. erect, very slender—Petio. grass like.  
\* \* *Lfts. one pair.*
- iii. St. winged—Lfts. lin.-lanc.—Pedunc. two-flowered—Pods hairy (Surrey and Essex).
- iv. St. angled—Lfts. lanc.—Pedunc. many-flowered—Stip. large sagitt.
- v. St. climb., winged—Lfts. large, ensi.—Pedunc. many-flowered—Stip. semi-sagitt. narrow.  
(*L. Latifolius with ellip. lfts. and broader stip. is the Everlasting Pea of gardens, and escaped from cultivation.*)
- vi. St. angled—Lfts. ob.-ov.—Pedunc. 2-5 flowered, very long—Stip. large semi-sagitt—Pods glab. (Ongar, Essex).  
\* \* \* *Lfts. many—Ls. tendrilled.*
- vii. St. winged—Lfts. lin. lanc., acute—Stip. semi-sagitt., lanc.
- viii. St. angled—Lfts. oval—Stip. oval, cord-hast., large.
- v. 2. *St. slend., straggling—Lfts. ellip.-lanc. (Burra Firth, Unst, Shetland).*  
\* \* \* \* *Lfts. many—Ls. not tendrilled.*
- ix. St. winged, simp.—Lfts. 2-4 pair ellip.-obl., glab.—Stip. semi-sagitt.
- v. 2. *Lfts. lin. lanc.*
- x. St. angled, branched—Lfts. 3-6 pair, lanc.—Stip. lin. lanc., acute.

## ORD. XXVI.—ROSACEÆ.

## Gen. I.

- i. Fls. one or two on short pedi.—Ls. ellip.
- a. Pedi. sol., glab.—Ls. glab.—Branches spir.—Fr. glob., erect.
- b. Pedi. in pairs, downy—Ls. downy beneath—Branches slightly spin.—Fr. glob., drooping.

## ORD. XXVI.—ROSACEÆ—cont.

| Botanical Name.                               | Common Name.                       | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|------------------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| <i>c. domestica</i> , <i>L.</i> . . . .       | <i>wild Plum</i> . . . .           | . . . .                  | . . . . | . . . .   | . . . .        | . . . .               |
| ii. <i>P. Padus</i> , <i>L.</i> . . . .       | <i>Bird Cherry</i> . . . .         | Woods .                  | W.      | 10-15 ft. | T.             | 5-6                   |
| iii. <i>P. cerasus</i> , <i>L.</i> . . . .    | <i>Cherry</i> . . . . .            | Woods .                  | W.      | 3-8 ft.   | Shb.           | 5-6                   |
| iv. <i>P. avium</i> , <i>L.</i> . . . .       | <i>wild C. or Gean.</i>            | Woods .                  | W.      | 10-20 ft. | T.             | 5-6                   |
| <b>Gen. II. Spiræa</b> , <i>L.</i>            | <i>Dropwort, Meadow-Sweet.</i>     |                          |         |           |                |                       |
| i. <i>S. ulmaria</i> , <i>L.</i> . . . .      | <i>Meadow-Sweet</i> .              | Mead. &c.                | W.      | 3 ft.     | P.             | 6-8                   |
| ii. <i>S. filipendula</i> , <i>L.</i> . . .   | <i>Dropwort</i> . . . .            | Downs .                  | W.      | 12-18 in. | P.             | 6-7                   |
| [iii. <i>S. salicifolia</i> , <i>L.</i> . . . | <i>Willow-leaved Spiræa.</i>       | Dp. wds.!                | Pk.     | 3-4 ft.   | P.             | 6-7                   |
| <b>Gen. III. Geum</b> , <i>L.</i>             | <i>Avens.</i>                      |                          |         |           |                |                       |
| i. <i>G. urbanum</i> , <i>L.</i> . . . .      | <i>Wood A.</i> . . . .             | Hedgebks.                | Y.      | 1-2 ft.   | P.             | 6-8                   |
| ii. <i>G. rivale</i> , <i>L.</i> . . . .      | <i>Water A.</i> . . . .            | Dp. woods                | Y.      | 1-2 ft.   | P.             | 6-7                   |
| <b>Gen. IV. Dryas</b> , <i>L.</i>             | <i>Dryas.</i>                      |                          |         |           |                |                       |
| i. <i>D. octopetala</i> , <i>L.</i> . . .     | <i>white D. or Mountain Avens.</i> | Mount.!                  | W.      | 1-3 in.   | P.             | 6-7                   |
| <b>Gen. V. Sibbaldia</b> , <i>L.</i>          | <i>Sibbaldia.</i>                  |                          |         |           |                |                       |
| i. <i>S. procumbens</i> , <i>L.</i> . . .     | <i>procumbent S.</i> . . .         | Sc. moun.!               | Y.      | 3-5 in.   | P.             | 7                     |
| <b>Gen. VI. Potentilla</b> , <i>L.</i>        | <i>Cinque-foil.</i>                |                          |         |           |                |                       |
| * . . . .                                     |                                    |                          |         |           |                |                       |
| i. <i>P. fruticosa</i> , <i>L.</i> . . . .    | <i>shrubby C.</i> . . . .          | Rocky pl.!               | Y.      | 2-4 ft.   | Shb.           | 6-7                   |
| ii. <i>P. rupestris</i> , <i>L.</i> . . . .   | <i>strawberry-leaved C.</i>        | Rocks! .                 | W.      | 1-2 ft.   | P.             | 5-6                   |
| iii. <i>P. anserina</i> , <i>L.</i> . . . .   | <i>Silver-weed</i> . . . .         | Roadsides                | Y.      | 6-12 in.  | P.             | 6-7                   |
| * * . . . .                                   |                                    |                          |         |           |                |                       |
| iv. <i>P. argentea</i> , <i>L.</i> . . . .    | <i>hoary C.</i> . . . .            | Roadsides                | Y.      | 6-18 in.  | P.             | 6-7                   |
| v. <i>P. verna</i> , <i>L.</i> . . . .        | <i>Spring C.</i> . . . .           | Hil. pas.                | Y.      | 3-6 in.   | P.             | 4-6                   |
| vi. <i>P. alpestris</i> , <i>Hall, fil.</i>   | <i>Alpine C.</i> . . . .           | Mount. .                 | Or.     | 4-10 in.  | P.             | 6-7                   |
| vii. <i>P. reptans</i> , <i>L.</i> . . . .    | <i>creeping C.</i> . . . .         | Roadsides                | Y.      | 6-18 in.  | P.             | 6-9                   |
| viii. <i>P. tormentilla</i> , <i>Sipt.</i> .  | <i>Tormentil</i> . . . .           | Heaths .                 | Y.      | 6-10 in.  | P.             | 6-8                   |
| <i>a. officinalis</i> . . . . .               | . . . . .                          | . . . .                  | . . . . | . . . .   | . . . .        | . . . .               |
| <i>b. procumbens</i> , <i>Sipt.</i> . . .     | . . . . .                          | . . . .                  | . . . . | . . . .   | . . . .        | . . . .               |
| ix. <i>P. fragariastrum</i> , <i>Ehrh.</i>    | <i>Strawberry-leaved C.</i>        | Banks .                  | W.      | 1-6 in.   | P.             | 3-5                   |
| <b>Gen. VII. Comarum</b> , <i>L.</i>          | <i>Marsh Cinque-foil.</i>          |                          |         |           |                |                       |
| i. <i>C. palustre</i> , <i>L.</i> . . . .     | <i>purple M.</i> . . . .           | Bogs . .                 | pu B.   | 6-18 in.  | P.             | 5-7                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- c. Pedi. sol. or in pairs, glab.—Ls. downy on the ribs beneath—Branches unarmed—Fr. obl.
- ii. Fls. in a pend. raceme—Ls. ob.-ov., doubly serr., glab.
- iii. Fls. in almost sess. umbels—Ls. ov.-obl., glab., firm, erect—Calyx tube not contracted.
- iv. Fls. as last—Ls. flaccid, drooping, downy beneath—Calyx tube contracted at mouth.

## Gen. II.

- i. Ls. pinn., downy beneath: lfts. ent., term one large, lobed.
- ii. Ls. pinn., mostly rad.; lfts. deeply cut, serr., glab.
- iii. Shrubby—Ls. obl.-lanc., serr., glab.—Rac. term.]

## Gen. III.

- i. Fls. erect—Heads of fr. sess.; upper joint of awn. short glab.
- ii. Fls. drooping—Heads of fr. stalked; upper joint of awn. long hairy.  
(*G. Intermedium*, probably a hybrid, partakes of the characters of both—*It has the fls. erect or drooping and the upper joint of the awn. hairy with a glabrous tip.*)

## Gen. IV.

- i. St. procumb.—Ls. simp., obt., serr.—Pet. eight.

## Gen. V.

- i. St. woody—Ls. tern.; lfts. wedge-shaped, three-toothed.

## Gen. VI.

\* *Ls. pinnate.*

- i. St. shrubby—Lfts. five, ent., margins revolute.
  - ii. St. erect, dichot.—Lfts. cuneate, serr.—Fls. white.
  - iii. St. creeping—Lfts. deeply serr., silky beneath—Fls. sol.  
\* \* *Ls. digitate—Fls. mostly yellow.*
  - iv. St. erect—Ls. quin.; lfts. cuneate, white beneath.
  - v. St. prost., woody—Rad. ls. quin.; lfts. ob.-ov., trunc.—Lower stip. lin., acute.
  - vi. St. ascend—Ls. as *P. verna*. but not trunc.—Fls. larger—Stip. ovate., obt.
  - vii. St. prost., fili., rooting—Ls. quin., long-stalked—Fls. sol.; pet. five.—Ach. granulate.
  - viii. St. prost., rarely rooting—Ls. tern., stem ls. sess.—Fls. cymose; pet. four—Ach. wrinkled.
  - a. St. erect, not rooting at joints—Ls. alt., sess.—St. ls. tern.; fls. in a term. cyme.
  - b. St. longer and procumb., rooting at joints—Ls. larger, stalked; st. ls. quin.—Fls. sol.
- P. Mixta* is probably a hybrid between *Sp. 7* and *8*.
- ix. St. procumb.—Ls. tern., lfts. hairy, serrate—Fls. white.

## Gen. VII.

- i. St. erect—Ls. pinn.; lfts. lanc., serr.—Fls. dingy purple

ORD. XXVI.—ROSACEÆ—*cont.*

| Botanical Name.                         | Common Name.                                | Soil<br>or<br>Situation. | Colour.         | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|-----------------|----------|----------------|-----------------------|
| <b>Gen. VIII. <i>Fragaria</i>, L.</b>   | <i>Strawberry.</i>                          |                          |                 |          |                |                       |
| i. <i>F. vesca</i> , L. . . . .         | <i>Wood S.</i> . . . .                      | Woods .                  | W.              | 1-6 in.  | P.             | 5-7                   |
| iii. <i>F. elatior</i> , Ehrh. . .      | <i>Hautboy S.</i> . . .                     | Woods .                  | W.              | 3-10 in. | P.             | 5-7                   |
| <b>Gen. IX. <i>Rubus</i>, L.</b>        | <i>Blackberry, Rasp-<br/>berry, &amp;c.</i> |                          |                 |          |                |                       |
| SEC. I.                                 |   |                          |                 |          |                |                       |
| i. <i>R. chamaemorus</i> , L. .         | <i>Cloudberry</i> . . .                     | Alpine<br>turfy bogs.    | W.              | 8-10 in. | P.             | 6-7                   |
| ii. <i>R. saxatilis</i> , L. . . .      | <i>Stone B.</i> . . . .                     | Stony pl.<br>N. of E.    | g Y.            | 6-12 in. | P.             | 6-8                   |
| SEC. II.                                |   |                          |                 |          |                |                       |
| iii. <i>R. idæus</i> , L. . . . .       | <i>Raspberry.</i> . . .                     | Woods .                  | W.              | 3-5 ft.  | P.             | 6-8                   |
| b. <i>Leesii</i> , Bab. . . . .         | . . . . .                                   | . . . . .                | . .             | . .      | . .            | . .                   |
| SEC. III.                               |   |                          |                 |          |                |                       |
| iv. <i>R. fruticosus</i> , L. . .       | <i>Blackberry</i> . . .                     | Woods,<br>hedges,<br>&c. | W.<br>or<br>Pk. | 3-10 ft. | P.             | 7-8                   |
| A.                                      |   |                          |                 |          |                |                       |
| i. <i>R. suberectus</i> , Anders.       | . . . . .                                   | Boggy<br>woods.          | W.              | . .      | . .            | . .                   |
| ii. <i>R. plicatus</i> , W. & N.        | . . . . .                                   | Heaths .                 | W.              | . .      | . .            | . .                   |
| iii. <i>R. fissus</i> , Lindl. . . .    | . . . . .                                   | Wet<br>heaths.           | W.              | . .      | . .            | . .                   |
| iv. <i>R. affinis</i> , W. & N. .       | . . . . .                                   | Heaths .                 | . .             | . .      | . .            | . .                   |
| B.                                      |   |                          |                 |          |                |                       |
| v. <i>R. Lindleianus</i> , Lees.        | . . . . .                                   | Thickets                 | W.              | . .      | . .            | . .                   |
| vi. <i>R. rhamnifolius</i> ,<br>W. & N. | . . . . .                                   | Hedges .                 | W.              | . .      | . .            | . .                   |
| vii. <i>R. incurvatus</i> , Bab. .      | . . . . .                                   | Heaths .                 | Pk.             | . .      | . .            | . .                   |
| viii. <i>R. imbricatus</i> , Hort. .    | . . . . .                                   | Woods .                  | W.              | . .      | . .            | . .                   |
| ix. <i>R. latifolius</i> , Bab. . .     | . . . . .                                   | Woods .                  | W.              | . .      | . .            | . .                   |
| C.                                      |   |                          |                 |          |                |                       |
| *                                       |   |                          |                 |          |                |                       |
| x. <i>R. discolor</i> , W. & N.         | . . . . .                                   | Hedges .                 | Pk.             | . .      | . .            | . .                   |
| xi. <i>R. thyrsoides</i> , Wimm.        | . . . . .                                   | Hedges .                 | W.              | . .      | . .            | . .                   |
| * *                                     |   |                          |                 |          |                |                       |
| a.                                      |   |                          |                 |          |                |                       |
| xii. <i>R. leucostachys</i> , Sm. .     | . . . . .                                   | Hedges .                 | Pk.             | . .      | . .            | . .                   |
| xiii. <i>R. Grabowskii</i> , Wei. .     | . . . . .                                   | Hedges .                 | . .             | . .      | . .            | . .                   |



## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. VIII.

- i. Hairs of the pedi. adpr.
- ii. Larger—Hairs of the pedi. spread.]

## Gen. IX.

SEC. I.—*Stem herbaceous.*

- i. St. erect—Ls. simp., lobed, plaited—Fls. sol., term.

- ii. St. prost.; fl. shoots erect—Ls. tern.—Fls. in term. corymbs.

SEC. II.—*Stem shrubby with suckers.*

- iii. St. round, very prickly—Ls. pinn.; lfts. ovate, white beneath.

- 6. Ls. all tern., lfts. crowded—Prickles with bulbous bases.

SEC. III.—*Stem shrubby without suckers.*

- iv. St. prickly, mostly rooting—Ls. tern. or pinn. very variable—Fls. in term. panicles.

A. *Suberecti.*—*Stem nearly erect, glabrous, with equal prickles.*

- i. St. ang.; prickles few, confined to the angles—Lfts. flexible, those of the fl. shoots narrowed below—Panicle thyrsoid—Fr.-cal. reflex.
- ii. St. bluntly ang.; prickles strong, deflexed, confined to the angles—Lfts. coriaceous; those of the fl. shoots gibbous below—Pan. racemose, hairy—Fr.-cal. reflexed.
- iii. St. slightly ang.; prickles many, slender, not confined to the angles—Lfts. coriaceous—Pan. corymbose—Fr.-cal. erecto.-patent.
- iv. St. ang.; prickles large, deflexed—Lfts. slightly wavy, dull green above, pilose beneath—Pan. broad, corymb. with ascending branches, lower ones widely spreading.

B. *Nitidi.*—*St. arched, rooting at end, slightly hairy, without setæ or stellate down—Prickles mostly on the angles of the stem.*

- v. St. smooth, shining; prickles few, strong, declining—Lfts. stalked, green and shining above; paler and pilose beneath—Pan. corymb., hairy, leafy, with divaricate branches.
- vi. St. ang., furrowed; prickles strong—Lfts. coriaceous, flat, tomentose beneath—Pan. pyram., compact above with distant branches below.
- vii. St. ang., prickles strong, straight—Lfts. coriaceous, with incurved wavy margins, downy beneath—Pan. narrow; branches short, patent.
- viii. St. decurved, furrowed, much branched; prickles small, strong—Lfts. opaque above, term. one round, cord: basal. imbricate, convex—Pan. long narrow; branches long, racemose, hairy at top.
- ix. St. decumb.; furrowed; prickles short, slender, declining—Lfts. broad, large, dull green above, paler beneath, coarsely serr.; term. one cord-acum.; basal. ones sess., imbrica.—Pan. short leafy below.

C. *Villicaules.*—*St. pilose, or stellately downy with few glands or setæ—Prickles on the angles of stem—Basal. lfts. stalked.*\* *Prickles strong equal—Hairs adpressed—Lfts. felted beneath.*

- x. St. furrowed, stellately downy—Lfts. coriaceous, slightly convex, closely tomentose beneath—Pan. long narrow; pet. pink, styles purple.
- xi. St. furrowed, sub-glab.—Lfts. coriaceous, slightly concave, hairy and tomentose beneath—Pan. long, lax; pet. white, styles green.

\* \* *Prickles moderate, equal—Hairs patent—Lfts. not felted beneath.*a. *St. ang., hairy—Ls. grey or white beneath.*

- xii. St. with copious stellate down—Lfts. softly tomentose beneath—Pan. long, narrow, its prickles slender straight.
- xiii. St. nearly glab.; prickles many—Lfts. opaque above, ashy beneath—Pan. long compound, prickly; branches ascending, corymbose.

ORD. XXVI.—ROSACEÆ—*cont.*

| Botanical Name.   | Common Name. | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|---|--------------|--------------------------|---------|---------|----------------|-----------------------|
| xiv. <i>R. carpinifolius</i> ,<br><i>W. &amp; N.</i><br><i>b.</i> | . . . .      | Hills . .                | Pk.     | . .     | . .            | . .                   |
| xv. <i>R. Salteri</i> , <i>Bab.</i> .                             | . . . .      | Hedges .                 | Pk.     | . .     | . .            | . .                   |
| xvi. <i>R. villicaulis</i> ,<br><i>W. &amp; N.</i>                | . . . .      | Woods .                  | Pk.     | . .     | . .            | . .                   |
| xvii. <i>R. macrophyllus</i> ,<br><i>Weihe.</i><br>* * *          | . . . .      | Woods .                  | W.      | . .     | . .            | . .                   |
| xviii. <i>R. mucronulatus</i> ,<br><i>Bor.</i>                    | . . . .      | Hedges .                 | ∅ Pk.   | . .     | . .            | . .                   |
| xix. <i>R. Sprengelii</i> , <i>Weihe.</i><br><i>D.</i><br>*       | . . . .      | Heaths .                 | Pk.     | . .     | . .            | . .                   |
| xx. <i>R. Bloxamii</i> , <i>Lees.</i>                             | . . . .      | Woods .                  | W.      | . .     | . .            | . .                   |
| xxi. <i>R. scaber</i> , <i>Weihe.</i>                             | . . . .      | . . . .                  | . .     | . .     | . .            | . .                   |
| xxii. <i>R. hystrix</i> , <i>Weihe.</i>                           | . . . .      | Hedges .                 | Pk.     | . .     | . .            | . .                   |
| xxiii. <i>R. rosaceus</i> , <i>Weihe.</i>                         | . . . .      | . . . .                  | . .     | . .     | . .            | . .                   |
| xxiv. <i>R. rudis</i> , <i>Weihe.</i> .                           | . . . .      | Hedges .                 | W.      | . .     | . .            | . .                   |
| xxv. <i>R. radula</i> , <i>Weihe.</i><br>* *                      | . . . .      | Hedges .                 | Pk.     | . .     | . .            | . .                   |
| xxvi. <i>R. Koehleri</i> , <i>Weihe.</i>                          | . . . .      | Hedges .                 | P.      | . .     | . .            | . .                   |
| xxvii. <i>R. fusco-ater</i> ,<br><i>Weihe.</i>                    | . . . .      | Hedges .                 | Pk.     | . .     | . .            | . .                   |
| xxviii. <i>R. diversifolius</i> ,<br><i>Lind.</i>                 | . . . .      | Hedges .                 | W.      | . .     | . .            | . .                   |
| xxix. <i>R. Lejeunii</i> , <i>Weihe.</i><br>* * *                 | . . . .      | Hedges .                 | . .     | . .     | . .            | . .                   |
| xxx. <i>R. pyramidalis</i> ,<br><i>Bab.</i>                       | . . . .      | Woods .                  | g W.    | . .     | . .            | . .                   |
| xxxi. <i>R. Guntheri</i> ,<br><i>Weihe.</i>                       | . . . .      | Sha. pl. .               | ∅ Pk.   | . .     | . .            | . .                   |
| xxxii. <i>R. humifusus</i> ,<br><i>Weihe.</i>                     | . . . .      | Woods .                  | W.      | . .     | . .            | . .                   |
| xxxiii. <i>R. foliosus</i> , <i>Weihe.</i>                        | . . . .      | Heaths .                 | W.      | . .     | . .            | . .                   |
| xxxiv. <i>R. glandulosus</i> ,<br><i>Bell.</i><br><i>E.</i>       | . . . .      | Woods .                  | W.      | . .     | . .            | . .                   |
| xxxv. <i>R. Balfourianus</i> ,<br><i>Blox.</i>                    | . . . .      | Hedges .                 | ∅ Pk.   | . .     | . .            | . .                   |
| xxxvi. <i>R. corylifolius</i> , <i>Sm.</i>                        | . . . .      | Hedges .                 | W.      | . .     | . .            | . .                   |
| xxxvii. <i>R. althæifolius</i> ,<br><i>Host.</i>                  | . . . .      | Hedges .                 | W.      | . .     | . .            | . .                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- xiv. St. with sol. and clustered hairs, no stellate down—Lfts. hairy beneath—Pan. narrow, its prickles decurved.  
*b. St. ang.—Ls. green beneath.*
- xv. St. furrowed, sub-glab.—Lfts. thin, rough beneath, coarsely and doubly serr.—Pan. long, lax, branches short.
- xvi. St. with spreading hairs—Lfts. thick, pale green shining, velvety, with reddish veins beneath.
- xvii. St. with scattered hairs—Lfts. thin, pilose beneath—Pan. elong., its branches ascending.  
*\* \* \* Prickles unequal—St. round—Ls. green beneath.*
- xviii. St. arched; prickles few, small, slender, straight—Lfts. rough and pilose on both sides, finely serrate.
- xix. St. prost.; prickles many, unequal, deflexed—Lfts. green above, pilose beneath.  
*D. Glandulosi.—Stem covered with many glands, setæ, and aciculi.*  
*\* Basal. lfts. stalked—Prickles passing suddenly into setæ and aciculi.*
- xx. St. prost.—Lfts. green beneath, term. one broadly ob.-ovate, cusp.—Pan. long leafy to top.
- xxi. A form of *R. Bloxamii*, with larger prickles, and more lax panicle.
- xxii. St. arched, slightly furrowed—Lfts. green beneath—Term. one obl., ob.-ov. acum.—Pan. long, leafy, upper part leafless.
- xxiii. A prost. form of *R. hystrix*, with a coral red stem, and the prickles more unequal.
- xxiv. St. arched, ang.—Lfts. whitish green beneath, coarsely, doubly serr.—Sep. leaf-pointed, reflexed in fruit.
- xxv. St. arched, ang.—Lfts. white beneath, unequally and finely serr.—Sep. not leaf-pointed, reflexed in fruit.  
*\* \* Ls. quinate—Prickles passing gradually into setæ and aciculi.*
- xxvi. St. trailing, terete; prickles many, irregular—Lfts. glab. above, pale beneath; basal. ones stalked—Pan. open, broad topped, with spreading branches.
- xxvii. St. decumb., ang.—Prickles many, unequal, declining—Lfts. rugose above, green beneath, term. one cord, ov.; basal. ones imbric.—Pan. long, narrow.
- xxviii. St. prost., ang: prickles unequal, slender—Lfts. broad, rugose above, pale, pilose beneath—Pan. long, leafy above.
- xxix. St. prost., ang.; prickles unequal, small—Lfts. narrow, dull; paler beneath, with silky hairs on both sides—Pan. lax, axillary branches long.  
*\* \* \* Ls. ternate, rarely quinate—Prickles passing abruptly into setæ, &c.*
- xxx. St. decumb.; prickles many, short, strong—Lfts. with recurved edges—Pan. large, very pyramidal; base of sep. adpressed to fr.
- xxxi. St. decumb.; prickles weak, unequal—Lfts. large, flat, doubly and unequally serr.—Pan. long, leafy, rachis wavy—Fr.-sep. reflexed.
- xxxii. St. prost.; prickles weak, unequal—Lfts. doubly and finely dent.—Pan. racemose, naked at top; branches few, short, distant.
- xxxiii. A form of *R. Koehleri* with st. more ang.; term lft. cord-acum.—Pan. leafy to top.
- xxxiv. St. trailing; prickles slender, small, unequal glandular hairs many, equal—Pan. racemose, open; branches spreading at right angles.  
*E. Cæsii.—Stem prost. roundish without hairs, &c., but covered with glaucous bloom.*
- xxxv. Prickles nearly equal—Lfts. green on both sides—Sep. ov. with a long point. erect in fr.
- xxxvi. Prickles nearly equal—Lfts. pale and soft beneath—Sep. ov. reflexed in fr.
- xxxvii. Prickles very unequal—Term lfts. round, cord. pointed—Sep. ov.-acum.

ORD. XXVI.—ROSACEÆ—*cont.*

| Botanical Name.                             | Common Name.               | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|----------------------------|--------------------------|---------|----------|----------------|-----------------------|
| xxxviii. <i>R. tuberculatus</i> ,           | . . . .                    | Hedges .                 | Pk.     | . .      | . .            | . .                   |
| xxxix. <i>R. cæsius</i> , <i>L.</i> . .     | . . . .                    | Heaths .                 | W.      | . .      | . .            | . .                   |
| <b>Gen. X. <i>Rosa</i>, <i>L.</i></b>       | <i>Rose, Sweet-briar.</i>  |                          |         |          |                |                       |
| <i>A.</i><br>*                              |                            |                          |         |          |                |                       |
| i. <i>R. spinosissima</i> , <i>L.</i> .     | <i>Burnet-leaved R.</i>    | Heaths .                 | p Pk.   | 1-3 ft.  | Sh.            | 5-6                   |
| v. 2. <i>rubella</i> . . . . .              | . . . . .                  | . . . . .                | . .     | . .      | . .            | . .                   |
| ii. <i>R. Hibernica</i> , <i>Sm.</i> . .    | <i>Irish R.</i> . . . .    | Ireland .                | Pk.     | 1-3 ft.  | Sh.            | 5-7                   |
| v. 2. <i>glabra</i> , <i>Baker</i> . . .    | . . . . .                  | . . . . .                | . .     | . .      | . .            | . .                   |
| v. 3. <i>cordifolia</i> , <i>Baker</i> .    | . . . . .                  | . . . . .                | . .     | . .      | . .            | . .                   |
| * *   |                            |                          |         |          |                |                       |
| iii. <i>R. Sabini</i> , <i>Woods.</i> . .   | <i>Sabine's R.</i> . . . . | N. of E..                | Pk.     | 1-5 ft.  | Sh.            | 5-7                   |
| v. 2. <i>involuta</i> , <i>Sm.</i> . . .    | . . . . .                  | . . . . .                | . .     | . .      | . .            | . .                   |
| v. 3. <i>Robertsonii</i> , <i>Baker.</i>    | . . . . .                  | N. of E..                | . .     | . .      | . .            | . .                   |
| v. 4. <i>Wilsoni</i> , <i>Bor.</i> . . . .  | . . . . .                  | Menai. .                 | . .     | . .      | . .            | . .                   |
| <i>B.</i><br>*                              |                            |                          |         |          |                |                       |
| †   |                            |                          |         |          |                |                       |
| v. <i>R. mollissima</i> , <i>Fr.</i> . .    | <i>villous R.</i> . . . .  | Hedges,<br>N. of E.      | Ro.     | 3-6 ft.  | Sh.            | 6-7                   |
| vi. <i>R. tomentosa</i> , <i>Woods.</i>     | <i>downy-leaved R.</i>     | Hedges .                 | Ro.     | 3-6 ft.  | Sh.            | 6-7                   |
| † †   |                            |                          |         |          |                |                       |
| vii. <i>R. inodora</i> , <i>Fr.</i> . . .   | <i>slightly-scented S.</i> | Thick.,<br>S. of E.      | R.      | 3-6 ft.  | Sh.            | 6-7                   |
| viii. <i>R. micrantha</i> , <i>Sm.</i> .    | <i>small-flowered S.</i>   | Heaths .                 | R.      | 3-6 ft.  | Sh.            | 6-7                   |
| † † †                                       |                            |                          |         |          |                |                       |
| ix. <i>R. rubiginosa</i> , <i>L.</i> . .    | <i>true S.</i> . . . . .   | Ch. hths.                | R.      | 3-6 ft.  | Sh.            | 6-7                   |
| x. <i>R. sepium</i> , <i>Lindl.</i> . .     | <i>small-leaved S.</i> .   | Heaths !.                | R.      | 3-6 ft.  | Sh.            | 6-7                   |
| * *   |                            |                          |         |          |                |                       |
| †   |                            |                          |         |          |                |                       |
| xi. <i>R. canina</i> , <i>L.</i> . . . .    | <i>common Dog R.</i> .     | Hedges .                 | Pk.     | 3-6 ft.  | Sh.            | 6-7                   |
| † †   |                            |                          |         |          |                |                       |
| xii. <i>R. systyla</i> , <i>Woods.</i> .    | <i>close-styled R.</i> . . | Hedges .                 | Pk.     | 2-4 ft.  | Sh.            | 6-7                   |
| xiii. <i>R. arvensis</i> , <i>Huds.</i> .   | <i>trailing R.</i> . . . . | Hedges .                 | W.      | 2-6 ft.  | Sh.            | 6-7                   |
| <b>Gen. XI. <i>Agrimonia</i>, <i>L.</i></b> | <i>Agrimony.</i>           |                          |         |          |                |                       |
| i. <i>A. Eupatoria</i> , <i>L.</i> . .      | <i>common A.</i> . . . .   | Banks .                  | Y.      | 1½-2 ft. | P.             | 6-7                   |
| v. 2. <i>odorata</i> , <i>Mill.</i> . . .   | <i>fragrant A.</i> . . .   | S. of E..                | . .     | . .      | . .            | . .                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

xxxviii. A very doubtful plant which has the prickles with tubercular bases.

xxxix. Prickles very unequal—Term lfts. ovate or three-lobed—Sep. ov.-lanc.—Fr. glaucous.

## Gen. X.

*A. Shoots setigerous.*

\* *Ls. simply serrate.*

- i. Lfts. small, glab. above—Prickles many, crowded, unequal—Sep. simple—Fr. glob., erect, glab., black.
- v. 2. *Prickles few, more equal—Fr. red, obl., pendulous.*
- ii. Lfts. larger, hairy beneath—Prickles few unequal, the larger curved—Sep. pinnfid, glab.—Fr. sub-glob., glab., red.
- v. 2. *Peti. and ls. not hairy; pedunc. naked.*
- v. 3. *Pedunc. glandular (Northumb.).*

\* \* *Ls. doubly serrate.*

- iii. Lfts., densely hairy and slightly glandular beneath—Prickles scattered, unequal, straight—Sep. somewhat pinn.—Fr. glob., setose.
- Vars. Doniana (Woods) and gracilis (Woods) are barely distinguishable.*
- v. 2. *St. dwarf—Lfts. hairy and gland. beneath; prickles crowded, unequal, straight—Sep. simple, almost as long as cor.—Fr. urceolate, glob., setose.*
- v. 3. *Teeth of ls. sharper—Sep. pinn.—Old ls. glab. above.*
- v. 4. *Tinged with purple—Ls. simply serr. hairy beneath—Fr. ov.-lanc.*

*B. Shoots not setigerous.*

\* *Ls. glandulose.*

† *Prickles uniform, straight.*

- v. Root shoots erect—Sep. persist, simp. connivent in fr.—Fr. scarlet, sub-glob., ripening early.
- vi. Root shoots arched—Sep. falling before winter, very pinn., spreading in fr.—Fr. obl., ripening late.
- (Several varieties. Subglobosa (Sm.)—Farinosa (Raw.)—Scabriuscula (Sm.)—Sylvestris (Woods)—Fundzilliana (Bak.)—Obovata (Baker), connect this and the last, and they are probably one species.)*
- † † *Prickles uniform, uncinat.*
- vii. Ls. doubly serr., downy—Sep. doubly pinn., decid.—Fr. ellip.—Ramuli without setæ.
- viii. Ls. doubly serr., downy—Sep. simply pinn.; seg. elongate, decid.—Fr. small, ovate—Ramuli with few setæ.
- † † † *Prickles various—Larger uncinat, smaller subulate.*
- ix. Lfts. doubly serr. rounded at base—Fr. pear-shaped—Sep. decid.
- x. Lfts. doubly serr. acute at base—Fr. ov. rounded at base—Sep. persist.
- \* \* *Ls. not glandulose.*
- † *Styles distinct.*
- xi. Lfts. naked, variable—Prickles equal, hooked—Sep. pinn. decid.
- (The different forms of this most variable plant have been ably described and systematized by Mr. J. G. Baker, who enumerates some thirty varieties.)*
- † † *Styles united in a column.*
- xii. Root shoots erect, arched—Prickles equal—Sty. in a con. head.
- xiii. Root shoots trailing—Prickles unequal, those on the ramuli subul.—Sty. in a round head.

## Gen. XI.

- i. St. ls. pinn.; lfts. deeply serr.—Tube of cal. obconic, deeply furrowed in fr.—Lower spines spreading.
- v. 2. *Tube of cal. bell-shaped, not furrowed in fr.; lower spines reflexed.*

## ORD. XXVI.—ROSACEÆ—cont.

| Botanical Name.                       | Common Name.                             | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------------|--|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. XII. Sanguisorba, L.</b>      | <i>Burnet.</i>                           |                          |         |          |                |                       |
| i. <i>S. officinalis, L.</i> . . .    | <i>great B.</i> . . . .                  | Dp. mead.                | Pu.     | 1-2 ft.  | P.             | 6-8                   |
| <b>Gen. XIII. Poterium, L.</b>        | <i>Burnet.</i>                           |                          |         |          |                |                       |
| i. <i>P. Sanguisorba, L.</i> . .      | <i>lesser B.</i> <i>colored.</i>         | Cha. hths.               | Pu.     | 6-18 in. | P.             | 6-8                   |
| ii. <i>P. muricatum, Spach.</i>       | . . . .                                  | Cha. hths.               | Pu.     | 1-2 ft.  | P.             | 6-8                   |
| <b>Gen. XIV. Alchemilla, L.</b>       | <i>Lady's Mantle.</i>                    |                          |         |          |                |                       |
| i. <i>A. vulgaris, L.</i> . . .       | <i>common L.</i> . . .                   | Hilly past.<br>N. of E.  | y G.    | 6-18 in. | P.             | 6-8                   |
| v. 2. <i>montana, Willd.</i> . .      | . . . .                                  | . . . .                  | . . . . | . . . .  | . . . .        | . . . .               |
| ii. <i>A. alpina, L.</i> . . . .      | <i>Alpine L.</i> . . . .                 | Sc. mount.               | y G.    | 3-9 in.  | P.             | 6-7                   |
| v. 2. <i>conjuncta, Bab.</i> . .      | . . . .                                  | . . . .                  | . . . . | . . . .  | . . . .        | . . . .               |
| iii. <i>A. arvensis, Scop.</i> . .    | <i>Field L., or<br/>Parsley-Piert.</i>   | Dry bks.                 | y G.    | 2-8 in.  | A.             | 5-8                   |
| <b>Gen. XV. Mespilus, L.</b>          | <i>Medlar.</i>                           |                          |         |          |                |                       |
| i. <i>M. germanica, L.</i> . .        | <i>common M.</i> . . .                   | Hedges!                  | W.      | . .      | T.             | 5-6                   |
| <b>Gen. XVI. Cratægus, L.</b>         | <i>Hawthorn, May.</i>                    |                          |         |          |                |                       |
| i. <i>C. Oxyacantha, L.</i> . .       | . . . .                                  | Woods &<br>hedges.       | W.      | . .      | T.             | 6-7                   |
| v. 2. <i>monogyna, Jac.</i> . .       | . . . .                                  | . . . .                  | . .     | . .      | . .            | . .                   |
| <b>Gen. XVII. Cotoneaster, Lindl.</b> | <i>Cotoneaster.</i>                      |                          |         |          |                |                       |
| i. <i>C. vulgaris, Lindl.</i> . .     | <i>common C.</i> . . .                   | Ormes-<br>head!          | Pk.     | 1-2 ft.  | Shb.           | 5-6                   |
| <b>Gen. XVIII. Pyrus, L.</b>          | <i>Pear, Apple,<br/>Service, &amp;c.</i> |                          |         |          |                |                       |
| i. <i>P. communis, L.</i> . . .       | <i>Pear</i> . . . . .                    | Woods .                  | W.      | . .      | T.             | 4-5                   |
| a. <i>Pyraster, Bor.</i> . . . .      | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| b. <i>Achras, Bor.</i> . . . .        | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| ii. <i>P. malus, L.</i> . . . .       | <i>Crab apple</i> . . .                  | Hedges &<br>Woods.       | Pk.     | . .      | T.             | 5-6                   |
| a. <i>acerba, DC.</i> . . . .         | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| b. <i>mitis</i> . . . . .             | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| iii. <i>P. torminalis, Sm.</i> . .    | <i>wild S.</i> . . . . .                 | Woods .                  | W.      | . .      | T.             | 4-5                   |
| iv. <i>P. Aria, Sm.</i> . . . .       | <i>white Beam-tree</i> .                 | Woods .                  | W.      | . .      | T.             | 5                     |
| a. <i>aria, Sy.</i> . . . . .         | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| b. <i>rupicola, Sy.</i> . . . .       | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| c. <i>scandica, Bab.</i> . . . .      | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| d. <i>fennica, L.</i> . . . . .       | . . . . .                                | . . . .                  | . .     | . .      | . .            | . .                   |
| v. <i>P. aucuparia, Gärtn.</i> . .    | <i>Mountain-Ash</i> .                    | Woods .                  | W.      | . .      | T.             | 5-6                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XII.

- i. Ls. pinn.; lfts. about thirteen, stalked, cord.—Spikes ov.-obl.; sta. four, not longer than cal.

## Gen. XIII.

- i. St. ang.—Ls. pinn.; lfts. many, small, sess.—Sta. many, exserted; cal. of fr. quadrangular.  
 ii. Larger—Cal. of fr. winged, pitted and reticulated.

## Gen. XIV.

- i. Ls. ent., reni., plaited, lobed—Fls. in lax, term. clusters.  
 v. 2. *Ls. and petioles very hairy.*  
 ii. Ls. digitate, serr., silky beneath—Fls. in interrupted spikes.  
 v. 2. *Lfts. joined to one-third of their length (Faroe Islands).*  
 iii. Ls. trifid, lobes cut, pubescent—Fls. sess., axill.

## Gen. XV.

- i. Thorny—Ls. lanc.—Fls. sol., sess., term.

## Gen. XVI.

- i. Spinous—Ls. deeply pinnfid., obt., glab.—Fls. corymb.; cal. and pedi. glab.  
 v. 2. *Cal. and pedi. pubesc. (the commonest form).*

## Gen. XVII.

- i. Ls. ov., densely hairy beneath—Pedunc. downy.

## Gen. XVIII.

- i. Ls. ellip., serr.—Fls. in corymbs—Sty. distinct—Fr. pyriform.  
 a. Base of fr. obconic.  
 b. Base of fr. rounded.  
 ii. Ls. ov.-obl.—Fls. in sess. umbels—Sty. united—Fr. glab.  
 a. Pedicels and undersides of ls. glab.—Fr. drooping.  
 b. Pedicels and undersides of ls. toment.—Fr. erect.  
 iii. Ls. ov., cord., glab., lobed; lobes triang., serr., lower ones spreading—Fls. corymb.—Fr. small, spotted.  
 iv. Ls. ovate, serr., lobed, white and downy beneath—Fls. corymb.—Fr. glob., red.  
 a. Ls. ov.; ent. below, serr. above—Lat. veins about twelve.  
 b. Ls. ob-ovate, most deeply lobed above the middle—Lat. veins six or eight.  
 c. Ls. with broad toothed lobes, lobes deepest near the middle—Lat. veins 5-8.  
 d. Ls. doubly serr. near apex, pinnfid below.  
 v. Ls. pinn.; lfts. serr., downy beneath—Fls. corymb.—Fr. glab., scarlet.

## ORD. XXVII.—ONAGRACEÆ.

| Botanical Name.                     | Common Name.                   | Soil or Situation. | Colour. | Growth.  | Duration. | Time of flowering. |
|-------------------------------------|--------------------------------|--------------------|---------|----------|-----------|--------------------|
| <b>Gen. I. Epilobium, L.</b>        | <i>Willow herb.</i>            |                    |         |          |           |                    |
| i. <i>E. angustifolium, L.</i>      | <i>Rose bay W.</i> . .         | Copses .           | Ro.     | 4-6 ft.  | P.        | 7-8                |
| v. 2. <i>brachycarpum, Leight.</i>  | .....                          | .....              | .....   | .....    | .....     | .....              |
| ii. <i>E. hirsutum, L.</i> . . .    | <i>great hairy W.</i> . .      | Wat. pl..          | Ro.     | 4-5 ft.  | P.        | 7-8                |
| iii. <i>E. parviflorum, Schreb.</i> | <i>small-flowered W.</i>       | Wat. pl..          | Ro.     | 1-1½ ft. | P.        | 7-8                |
| v. 2. <i>rivulare, Wahl.</i> . . .  | .....                          | .....              | .....   | .....    | .....     | .....              |
| v. 3. <i>intermedium, Merat.</i>    | .....                          | .....              | .....   | .....    | .....     | .....              |
| iv. <i>E. montanum, L.</i> . .      | <i>broad smooth-leaved W.</i>  | Dry bks.           | ♂ Pu.   | 1-2 ft.  | P.        | 6-7                |
| v. <i>E. roseum, Schreb.</i> . .    | <i>pale smooth-leaved W.</i>   | Copses .           | Ro.     | 1-2 ft.  | P.        | 7-8                |
| vi. <i>E. lanceolatum, Seb.</i> .   | <i>spear-leaved W.</i> . .     | Sto. pl.!          | ♂ Ro.   | 1-3 ft.  | P.        | 7-9                |
| vii. <i>E. palustre, L.</i> . . .   | <i>narrow-leaved W.</i>        | Bogs . .           | Ro.     | 6-18 in. | P.        | 7-8                |
| v. 2. <i>ligulatum, Baker.</i> . .  | .....                          | .....              | .....   | .....    | .....     | .....              |
| viii. <i>E. tetragonum, L.</i> . .  | <i>square-stalked W.</i>       | Bogs . .           | Ro.     | 1-2 ft.  | P.        | 7-8                |
| v. 2. <i>obscurum, Schreb.</i> . .  | .....                          | .....              | .....   | .....    | .....     | .....              |
| ix. <i>E. alpinum, L.</i> . . .     | <i>Alpine W.</i> . . .         | Alp. rills         | Ro.     | 2-4 in.  | P.        | 7-8                |
| v. 2. <i>anagallidifolium, Lam.</i> | .....                          | .....              | .....   | .....    | .....     | .....              |
| x. <i>E. alsinifolium, Vill.</i> .  | <i>Chickweed-leaved W.</i>     | Alp. rills         | Ro.     | 4-12 in  | P.        | 7-8                |
| <b>Gen. II. Oenothera, L.</b>       | <i>Evening-primrose.</i>       |                    |         |          |           |                    |
| i. <i>O. biennis, L.</i> . . .      | <i>common E.</i> . . .         | San. sh. (Lpool.)  | Y.      | 2-3 ft.  | P.        | 7-9                |
| <b>Gen. III. Isnardia, L.</b>       | <i>Isnardia.</i>               |                    |         |          |           |                    |
| i. <i>I. palustris, L.</i> . . .    | <i>Isnardia</i> . . . .        | Boggy pools.       | G.      | 6-10 in. | P.        | 6-7                |
| <b>Gen. IV. Circæa, L.</b>          | <i>Enchanter's Nightshade.</i> |                    |         |          |           |                    |
| i. <i>C. lutetiana, L.</i> . . .    | <i>common E.</i> . . .         | Dp. wds.           | ♂ W.    | 1-2 ft.  | P.        | 6-8                |
| ii. <i>C. alpina, L.</i> . . . .    | <i>Alpine E.</i> . . . .       | Nor. wds.          | ♂ W.    | 1-2 ft.  | P.        | 6-8                |

## ORD. XXVIII.—HALORAGIACEÆ.

|                                    |                              |           |       |          |       |       |
|------------------------------------|------------------------------|-----------|-------|----------|-------|-------|
| <b>Gen. I. Hippuris, L.</b>        | <i>Mare's-tail.</i>          |           |       |          |       |       |
| i. <i>H. vulgaris, L.</i> . . .    | <i>common M.</i> . . .       | Ditches . | G.    | 6-18 in. | P.    | 5-7   |
| <b>Gen. II. Myriophyllum, L.</b>   | <i>Water Milfoil.</i>        |           |       |          |       |       |
| i. <i>M. verticillatum, L.</i> . . | <i>whorled-W.</i> . . . .    | Ponds. .  | W.    | flo.     | P.    | 7-8   |
| v. 2. <i>pectinatum, DC.</i> . . . | .....                        | .....     | ..... | .....    | ..... | ..... |
| ii. <i>M. spicatum, L.</i> . . . . | <i>spiked-W.</i> . . . .     | Ponds. .  | W.    | flo.     | P.    | 6-7   |
| iii. <i>M. alternifolium, DC.</i>  | <i>alternate-flowered W.</i> | Ponds. .  | W.    | flo.     | P.    | 6-8   |
| <b>Gen. III. Callitriche, L.</b>   | <i>Water Star-wort.</i>      |           |       |          |       |       |
| i. <i>C. verna, L.</i> . . . . .   | <i>vernal W.</i> . . . .     | Ditches . | ..    | flo.     | A.    | 4-9   |



## ORD. XXVII.—ONAGRACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. St. round, erect—Ls. ellip.-lanc., alt.—Fls. many, in a long rac.
- v. 2. *Fls. smaller—Caps. erect (a garden escape).*
- ii. St. branched, cylind.—Ls. obl.-lanc., opp., hairy, amplex—Rt. cr.
- iii. St. cylind., woolly, almost simple—Ls. lanc., sess., alt.—Rt. fibr.
- v. 2. *Almost glabrous.*
- v. 3. *All the ls. alt.*
- iv. St. slender, mostly simp.—Ls. ov., toothed, stalked, opp., glab.
- v. St. obscurely four-angled—Ls. ellip.-lanc., toothed, stalked, glab., opp.
- vi. St. obscurely angled, pubesc.—Ls. ob.-lanc., toothed, alt., stalked, finely pubesc.
- vii. St. round, terete—Ls. sess., lanc. with a wedge-shaped base.
- v. 2. *Ls. lanc. faintly toothed.*
- viii. St. square—Ls. lanc., sess., finely toothed, shining above.
- v. 2. *Ls. ov.-lanc., opp., not shining above.*
- ix. St. decumb. at base—Ls. ellip.-lanc., obt., ent., slightly hairy.
- v. 2. *Stolons longer—Fls. pale.*
- x. St. tufted, asc.—Ls. ovate, acute, stalked, toothed, glab.—Root creeping.

## Gen. II.

- i. St. erect, hairy—Ls. ov.-lanc.—Fls. large, sess.; pet. ob-cord.

## Gen. III.

- i. St. glab., square, procumb. or flo., rooting at joints—Ls. opp., ov., acute—Fls. minute, sess., axill.

## Gen. IV.

- i. St. erect—Ls. ov., slightly toothed, downy.
- ii. Smaller—Ls. cord., dent., shining—(*Hybrids occur between these two*).

## ORD. XXVIII.—HALORAGIACEÆ.

## Gen. I.

- i. St. simple—Ls. lin., whorled—Fls. axill.

## Gen. II.

- i. Fls. in axill. whorls with pect. bracts.—Ls. five in a whorl.
- v. 2. *Bracts scarcely longer than fls.*
- ii. Fls. in a leafless spike, erect in bud—Ls. four in a whorl—Bracts ent.
- iii. Fls. in a leafless spike, nodding in bud—Ls. three in a whorl—Bracts pect

## Gen. III.

- i. Bracts falc.—Lobes of fr. bluntly keeled at back.

## ORD. XXVIII.—HALORAGIACEÆ—cont.

| Botanical Name.                              | Common Name.           | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|--|------------------------|--------------------------|---------|---------|----------------|-----------------------|
| v. 2. <i>platycarpa</i> , Kuetz..            | .....                  | .....                    | .....   | .....   | .....          | .....                 |
| ii. <i>C. hamulata</i> , Kuetz. .            | .....                  | Ditches .                | ..      | flo.    | A.             | 4-9                   |
| a. <i>sessilis</i> . . . . .                 | .....                  | .....                    | ..      | ..      | ..             | ..                    |
| b. <i>pedunculata</i> . . . . .              | .....                  | .....                    | ..      | ..      | ..             | ..                    |
| iii. <i>C. autumnalis</i> , L. . .           | <i>autumnal W.</i> . . | Ponds .                  | ..      | flo.    | A.             | 6-10                  |
| <b>Gen. IV. <i>Ceratophyllum</i>,<br/>L.</b> | <i>Hornwort.</i>       |                          |         |         |                |                       |
| i. <i>C. demersum</i> , L. . . .             | <i>common H.</i> . . . | Str. . . .               | ..      | flo.    | P.             | 6-7                   |
| v. 2. <i>submersum</i> , L. . . .            | .....                  | .....                    | ..      | ..      | ..             | ..                    |

## ORD. XXIX.—LYTHRACEÆ.

|                                     |                                  |            |     |          |    |     |
|-------------------------------------|----------------------------------|------------|-----|----------|----|-----|
| <b>Gen. I. <i>Lythrum</i>, L.</b>   | <i>Purple Loose-<br/>strife.</i> |            |     |          |    |     |
| i. <i>L. salicaria</i> , L. . . .   | <i>upright P.</i> . . . .        | Wat. pl..  | Pu. | 2-4 ft.  | P. | 7-9 |
| ii. <i>L. hyssopifolia</i> , L. . . | <i>hyssop-leaved P.</i> .        | Moi. pl.!  | Pk. | 6-12 in. | A. | 6-9 |
| <b>Gen. II. <i>Peplis</i>, L.</b>   | <i>Water-purslane.</i>           |            |     |          |    |     |
| i. <i>P. portula</i> , L. . . . .   | <i>common W.</i> . . . .         | Moi. pl. . | Pu. | Cr.      | A. | 7-8 |

## ORD. XXX.—TAMARISCACEÆ.

|                                   |                           |           |      |          |      |     |
|-----------------------------------|---------------------------|-----------|------|----------|------|-----|
| <b>Gen. I. <i>Tamarix</i>, L.</b> | <i>Tamarisk.</i>          |           |      |          |      |     |
| i. <i>T. anglica</i> , Webb. . .  | <i>English T.</i> . . . . | Sea sh. ! | pkW. | 5-10 ft. | Shb. | 7-9 |

## ORD. XXXI.—CUCURBITACEÆ.

|                                   |                           |          |      |      |    |     |
|-----------------------------------|---------------------------|----------|------|------|----|-----|
| <b>Gen. I. <i>Bryonia</i>, L.</b> | <i>Bryony.</i>            |          |      |      |    |     |
| i. <i>B. dioica</i> , L. . . . .  | <i>red-berried B.</i> . . | Hedges . | g W. | Cli. | P. | 5-9 |

## ORD. XXXII.—PORTULACACEÆ.

|                                  |                         |            |    |         |    |     |
|----------------------------------|-------------------------|------------|----|---------|----|-----|
| <b>Gen. I. <i>Montia</i>, L.</b> | <i>Blinks.</i>          |            |    |         |    |     |
| i. <i>M. fontana</i> , L. . . .  | <i>water B.</i> . . . . | Wet. pl. . | W. | 1-5 in. | A. | 4-8 |
| a. <i>minor</i> . . . . .        | .....                   | .....      | .. | ..      | .. | ..  |
| b. <i>rivularis</i> . . . . .    | .....                   | .....      | .. | ..      | .. | ..  |

ORD. XXVIII.—HALORAGIACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- v. 2. *Lobes of fr. slightly winged at back.*  
 ii. Bracts o.—Lobes of fr. parallel, bluntly keeled.  
 a. Fr. sess.  
 b. Fr. stalked—Ls. lin.  
 iii. Bracts. o.—Lobes of fr. spreading acutely, winged at back.

## Gen. IV.

- i. Fr. armed with two spines—Seg. of cal. notched at tip.  
 v. 2. *Fr. smooth—Seg. of cal. ent.*

## ORD. XXIX.—LYTHRACEÆ.

## Gen. I.

- i. Ls. opp., lanc., cord—Fls. in whorled spikes.  
 ii. Ls. alt., lin.-lanc.—Fls. sol., axill.

## Gen. II.

- i. Ls. opp., ob.-ov.—Fls. sol., axill. ; pet. often absent.

## ORD. XXX.—TAMARISCACEÆ.

## Gen. I.

- i. Ls. minute, acute, adpr.—Fls. in slender, lat., spikes.

## ORD. XXXI.—CUCURBITACEÆ.

## Gen. I.

- i. St. climbing—Ls. palm—Fls. in short axill., rac.

## ORD. XXXII.—PORTULACACEÆ.

## Gen. I.

- i. St. tufted, succulent—Ls. opp., ent., spath.—Fls. at first drooping.  
 a. St. short, rigid—Ped. axill. and term.  
 b. St. long, flaccid—Ped. all axill.

## ORD. XXXIII.—ILLECEBRACEÆ.

| Botanical Name.                      | Common Name.             | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|--------------------------------------|--------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. I. Illecebrum, L.</b>        | <i>Knot-grass.</i>       |                          |         |         |                |                       |
| i. <i>I. verticillatum, L.</i> . . . | <i>whorled-K.</i> . . .  | Bogs!<br>S.W. of E.      | W.      | 4-8 in. | P.             | 7-8                   |
| <b>Gen. II. Corrigiola, L.</b>       | <i>Strap-wort.</i>       |                          |         |         |                |                       |
| i. <i>C. littoralis, L.</i> . . .    | <i>Sand S.</i> . . . . . | San. pl.!                | W.      | 4-8 in. | A.             | 7-8                   |
| <b>Gen. III. Herniaria, L.</b>       | <i>Rupture-wort.</i>     |                          |         |         |                |                       |
| i. <i>H. glabra, L.</i> . . . . .    | <i>Rupture-wort</i> . .  | San. pl.!                | G.      | 4-6 in. | P.             | 7-8                   |
| v. 2. <i>ciliata, Bab.</i> . . . . . | . . . . .                | . . .                    | . .     | . .     | . .            | . .                   |
| <b>Gen. IV. Polycarpon, L.</b>       | <i>Allseed.</i>          |                          |         |         |                |                       |
| i. <i>tetraphyllum, L.</i> . . .     | <i>four-leaved A.</i> .  | San. sh.!<br>S.W. of E.  | g W.    | 3-6 in. | A.             | 6-7                   |

## ORD. XXXIV.—SCLERANTHACEÆ.

|                                      |                         |                        |    |         |    |     |
|--------------------------------------|-------------------------|------------------------|----|---------|----|-----|
| <b>Gen. I. Scleranthus, L.</b>       | <i>Knawel.</i>          |                        |    |         |    |     |
| i. <i>S. annuus, L.</i> . . . . .    | <i>annual K.</i> . . .  | Fie. . .               | G. | 2-8 in. | A. | 6-9 |
| v. 2. <i>biennis, Syme.</i> . . . .  | . . . . .               | . . . . .              | G. | 2-8 in. | P. | 6-9 |
| ii. <i>S. perennis, L.</i> . . . . . | <i>perennial K.</i> . . | San. fie.,<br>E. of E. | G. | 2-8 in. | P. | 6-9 |

## ORD. XXXV.—GROSSULARIACEÆ.

|                                     |                                   |                    |      |         |      |     |
|-------------------------------------|-----------------------------------|--------------------|------|---------|------|-----|
| <b>Gen. I. Ribes, L.</b>            | <i>Currant, Goose-<br/>berry.</i> |                    |      |         |      |     |
| i. <i>R. nigrum, L.</i> . . . . .   | <i>black C.</i> . . . . .         | Woods .            | y G. | 3-5 ft. | Shb. | 4-5 |
| ii. <i>R. rubrum, L.</i> . . . . .  | <i>red C.</i> . . . . .           | Woods .            | y G. | 3-5 ft. | Shb. | 4-5 |
| a. <i>sylvestre.</i> . . . . .      | . . . . .                         | . . . . .          | . .  | . .     | . .  | . . |
| b. <i>petraeum, Sm.</i> . . . . .   | . . . . .                         | . . . . .          | . .  | . .     | . .  | . . |
| c. <i>spicatum, Robs.</i> . . . .   | . . . . .                         | . . . . .          | . .  | . .     | . .  | . . |
| iii. <i>R. alpinum, L.</i> . . . .  | <i>Mountain C.</i> . .            | Woods,<br>N. of E. | y G. | 2-4 ft. | Shb. | 4-5 |
| iv. <i>R. grossularia, L.</i> . . . | <i>wild C.</i> . . . . .          | Hedges .           | G.   | 2-4 ft. | Shb. | 4-5 |
| a. <i>glandulosum</i> . . . . .     | . . . . .                         | . . . . .          | . .  | . .     | . .  | . . |
| b. <i>uva-crispa</i> . . . . .      | . . . . .                         | . . . . .          | . .  | . .     | . .  | . . |

## ORD. XXXVI.—CRASSULACEÆ.

|                                  |                         |            |    |         |    |     |
|----------------------------------|-------------------------|------------|----|---------|----|-----|
| <b>Gen. I. Tillæa, L.</b>        | <i>Tillæa.</i>          |            |    |         |    |     |
| i. <i>T. muscosa, L.</i> . . . . | <i>Mossy T.</i> . . . . | San. hths. | W. | 1-2 in. | A. | 6-7 |

## ORD. XXXIII.—ILLECEBRACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. St. fili., prost.—Ls. ovate—Fls. small, in axill. whorls.

## Gen. II.

- i. Sts. many, prost.—Ls. lin.-lanc.—Fls. in small clusters.

## Gen. III.

- i. St. prost.—Ls. obl.—Fls. sess., in axill. clusters forming a spike.  
 v. 2. *Ls. broader, orb., ciliate—Fls. in distinct clusters.*

## Gen. IV.

- i. Lower ls. four in a whorl., ob.-ov. ; upper ones opp.—Fls. in crowded clusters.

## ORD. XXXIV.—SCLERANTHACEÆ.

## Gen. I.

- i. St. much branched—Seg. of cal. acute, spreading in fr.  
 v. 2. *St. shorter, biennial—Ls. and fls. smaller.*  
 ii. St. nearly simp.—Seg. of cal. obt., connivent in fr.

## ORD. XXXV.—GROSSULARIACEÆ.

## Gen. I.

- i. Cal. pubesc.—Rac. of fls. pend., lax, downy—Bracts subu., shorter than fls.  
 ii. Cal. downy—Rac. of fls. (mostly pend.), glab.—Bracts ov. shorter than fls.  
 a. Rac. of fls. drooping in fl. and in fr.  
 b. Rac. erect in fl., pend. in fr.  
 c. Rac. erect in fl. and fr.  
 iii. Cal. glab.—Rac. erect in fl. and fr.—Bracts longer than fls.  
 iv. St. spinous—Pedunc. 1-3 fld. short, hairy—Bracts minute.  
 a. Fr. hairy.  
 b. Fr. smooth.

## ORD. XXXVI.—CRASSULACEÆ.

## Gen. I.

- i. St. procumb., tufted—Ls. obl., opp.—Fls. sess., axill., three cleft.

ORD. XXXVI.—CRASSULACEÆ—*cont.*

| Botanical Name.                                   | Common Name.                           | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. II. <i>Sedum</i>, L.</b>                  | <i>Stonecrop, Orpine.</i>              |                          |         |          |                |                       |
| *<br>i. <i>S. Rhodiola</i> , DC. . . .            | <i>Rose-root S.</i> . . . .            | Wet rocs.                | Y.      | 6-12 in. | P.             | 6-7                   |
| ii. <i>S. Telephium</i> , L. . . .                | <i>O., or Livelong.</i> . .            | Waysides                 | Pu.     | 1-2 ft.  | P.             | 7-8                   |
| a. <i>purpurascens</i> , Koch. . .                | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| b. <i>fabaria</i> , Koch. . . . .                 | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| * *<br>A.<br>iii. <i>S. villosum</i> , L. . . . . | <i>hairy S.</i> . . . . .              | Alp. bogs                | puW.    | 3-4 in.  | A.             | 6-7                   |
| iv. <i>S. dasyphyllum</i> , L. . .                | <i>thick-leaved S.</i> . .             | Old walls,<br>W. of E.!  | ro W.   | 2-3 in.  | P.             | 6-7                   |
| v. <i>S. anglicum</i> , Huds. . . .               | <i>English S.</i> . . . .              | Roc. pl. .               | W.      | 2-3 in.  | A.             | 6-8                   |
| vi. <i>S. album</i> , L. . . . .                  | <i>white S.</i> . . . . .              | Rocks &<br>walls.        | W.      | 3-5 in.  | P.             | 7-8                   |
| a. <i>teretifolium</i> , Haw. . . .               | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| b. <i>micranthum</i> , Bast. . . .                | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| *<br>vii. <i>S. acre</i> , L. . . . .             | <i>biting S., or Wall-<br/>pepper.</i> | Walls &<br>roofs.        | Y.      | 3-8 in.  | P.             | 6-7                   |
| [viii. <i>S. sexangulare</i> , L. . .             | <i>tasteless Mountain<br/>S.</i>       | Old walls!               | Y.      | 3-6 in.  | P.             | 7-8                   |
| [ix. <i>S. reflexum</i> , L. . . . .              | <i>crooked yellow S.</i>               | Walls &<br>roofs.        | Y.      | 6-8 in.  | P.             | 7-8                   |
| v. 2. <i>albescens</i> , Haw. . . .               | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| x. <i>S. rupestre</i> , Huds. . . .               | <i>St. Vincent's Rock<br/>S.</i>       | Rocks!<br>W. of E.       | Y.      | 6-10 in. | P.             | 6-7                   |
| v. 2. <i>minus</i> . . . . .                      | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| xi. <i>S. Forsterianum</i> , Sm. . .              | <i>Welch Rock S.</i> . .               | Rocks,<br>W. of E.!      | Y.      | 6-10 in. | P.             | 6-7                   |
| v. 2. <i>virescens</i> . . . . .                  | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |
| <b>Gen. III. <i>Sempervivum</i>,<br/>L.</b>       | <i>House-leek.</i>                     |                          |         |          |                |                       |
| i. <i>S. tectorum</i> , L. . . . .                | <i>common H.</i> . . . .               | Roofs . .                | Pu.     | 1-2 ft.  | P.             | 7-8                   |
| <b>Gen. IV. <i>Cotyledon</i>, L.</b>              | <i>Penny-wort.</i>                     |                          |         |          |                |                       |
| i. <i>C. umbilicus</i> , L. . . . .               | <i>Wall P.</i> . . . . .               | Rocks . .                | y G.    | 6-12 in. | P.             | 6-8                   |
| v. 2. <i>foliosa</i> . . . . .                    | . . . . .                              | . . . .                  | . .     | . .      | . .            | . .                   |

## ORD. XXXVII.—SAXIFRAGACEÆ.

|                                     |                         |            |     |          |     |     |
|-------------------------------------|-------------------------|------------|-----|----------|-----|-----|
| <b>Gen. I. <i>Saxifraga</i>, L.</b> | <i>Saxifrage.</i>       |            |     |          |     |     |
| i. <i>S. Geum</i> , L. . . . .      | <i>Kidney-shaped S.</i> | Ir. mount. | W.  | 6-12 in. | P.  | 6-7 |
| a. <i>crenata</i> . . . . .         | . . . . .               | . . . .    | . . | . .      | . . | . . |
| b. <i>serrata</i> . . . . .         | . . . . .               | . . . .    | . . | . .      | . . | . . |
| c. <i>elegans</i> , Mack. . . . .   | . . . . .               | . . . .    | . . | . .      | . . | . . |
| d. <i>gracilis</i> , Mack. . . . .  | . . . . .               | . . . .    | . . | . .      | . . | . . |
| ii. <i>S. hirsuta</i> , L. . . . .  | . . . . .               | Ir. mount. | Y.  | 6-12 in. | P.  | 6-7 |

ORD. XXXVI.—CRASSULACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. II.

\* *Ls. flat.*

i. Root woody—Ls. ob.-ov., fleshy, glaucous—Fls. yell. four partite.

ii. Ls. oval, obl., serr.—Fls. purp. five partite.

a. Upper ls. rounded at base.

b. Upper ls. cuneate at base.

\* \* *Ls. subterete.**A. Flowers white or purplish.*

iii. St. erect—Ls. lin., alt., flat above—St. and ls. gland.-pubesc.

iv. Flowering st. weak, procumb.—Ls. opp., ovate, fleshy, glaucous.

v. Flowering st. ascending—Ls. alt., gibb., ovate, glab.—Pan. bifid—Pet. very pointed.

vi. Flowering st. erect—Ls. lin., obt.—Pan. much branched—Pet. lanc.

a. Ls. flattened above—Pet. obt.

b. Ls. flattened above and below—Pet. acute.

\* *Flowers yellow.*

vii. Ls. alt., gibb., ov., imbricate on the barren shoots—Pan. trifid. leafy—Sep. obt., glab.

viii. Ls. lin., obt., spreading—Sep. acute not gibbous.]

ix. Ls. subu., cylind., lower ones recurved—Pet. obt. ; sep. ov., acute.]

v. 2. *Lower ls. glauc. not recurved.*

x. Ls. lin.-lanc., flattened, glauc. ; those of the barren shoots adpr.—Fls. in a flat-topped cyme—Sep. obl., obt. (Cheddar).

v. 2. *Smaller and more slender (W. of E.).*

xi. Ls. lanc., not glauc. ; those of the barren shoots spreading—Fls. in a compact, round-topped cyme—Sep. obt.

v. 2. *More slender.*

## Gen. III.

i. Ls. ov.-lan., cili., in a rose-like tuft—Offsets spreading.

## Gen. IV.

i. Ls. pelt., cren.—St. simple with rac. of pend. fls.—Bracts. ent.

v. 2. *Stem leafy.*

## ORD. XXXVII.—SAXIFRAGACEÆ.

## Gen. I.

i. Ls. orb., reni., toothed, hairy—St. slender, peti. channelled.

a. Ls. bluntly toothed ; base deeply cord.

b. Ls. less cord., dent.-serr.

c. Ls. acutely toothed, sharply narrowed into the peti.

d. Ls. orb., hairy on both sides.

ii. Ls. oval heart-shaped, blunt, with cartilaginous notches, sharply toothed, very hairy.

## ORD. XXXVII.—SAXIFRAGACEÆ—cont.

| Botanical Name.                                   | Common Name.                           | Soil or Situation. | Colour.   | Growth.   | Duration. | Time of flowering. |
|---|--|--------------------|-----------|-----------|-----------|--------------------|
| iii. <i>S. umbrosa</i> , <i>L.</i> . . .          | <i>London Pride, or None-so-pretty</i> | Ir. mount.         | W.        | 6-12 in.  | P.        | 6-7                |
| <i>a. genuina</i> . . . . .                       | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| <i>b. punctata</i> , <i>Haw.</i> . . . .          | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| <i>c. serratifolia</i> , <i>Mack.</i> . . . .     | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| <i>d. duplicato-serrata</i> . . . . .             | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| iv. <i>S. stellaris</i> , <i>L.</i> . . . .       | <i>starry S.</i> . . . .               | Alp. rocks         | W.        | 3-8 in.   | P.        | 7-8                |
| v. <i>S. nivalis</i> , <i>L.</i> . . . .          | <i>Alpine-clustered S.</i>             | Alp. rocks         | W.        | 3-6 in.   | P.        | 7-8                |
| vi. <i>S. Hirculus</i> , <i>L.</i> . . . .        | <i>y. marsh S.</i> . . . .             | Wet moors!         | Y.        | 4-8 in.   | P.        | 8                  |
| vii. <i>S. aizoides</i> , <i>L.</i> . . . .       | <i>y. mount S.</i> . . . .             | Alp. rills         | Y.        | 5-7 in.   | P.        | 6-9                |
| viii. <i>S. oppositifolia</i> , <i>L.</i> . . . . | <i>pu. mount S.</i> . . . .            | Alp. roc.!         | Pu.       | 6-8 in.   | P.        | 4-5                |
| ix. <i>S. granulata</i> , <i>L.</i> . . . .       | <i>W. Mead S.</i> . . . .              | Mead. . .          | W.        | 6-8 in.   | P.        | 5-6                |
| x. <i>S. cernua</i> , <i>L.</i> . . . .           | <i>drooping bulbous S.</i>             | Ben Lawers         | W.        | 3-5 in.   | P.        | 8                  |
| xi. <i>S. rivularis</i> , <i>L.</i> . . . .       | <i>Alp. brook S.</i> . . . .           | Alp. roc.          | W.        | 1-4 in.   | P.        | 8                  |
| xii. <i>S. tridactylites</i> , <i>L.</i> . . . .  | <i>Rue-leaved S.</i> . . . .           | Walls . .          | W.        | 2-4 in.   | A.        | 4-7                |
| xiii. <i>S. hypnoides</i> , <i>L.</i> . . . .     | <i>mossy S.</i> . . . .                | Rocks. .           | W.        | 3-12 in.  | P.        | 5-7                |
| <i>a. gemmifera</i> . . . . .                     | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| <i>b. platypetala</i> . . . . .                   | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| <i>c. decipiens</i> , <i>Ehrh.</i> . . . .        | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| <i>d. hirta</i> , <i>Don.</i> . . . .             | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . . | . . . . .          |
| xiv. <i>S. cæspitosa</i> , <i>L.</i> . . . .      | <i>tufted-Alp. S.</i> . . . .          | Sc. mnt.!          | W.        | 2-4 in.   | P.        | 5-7                |
| Gen. II. <i>Chrysosplenium</i> , <i>L.</i>        | <i>Golden Saxifrage.</i>               |                    |           |           |           |                    |
| i. <i>C. oppositifolium</i> , <i>L.</i> . . . .   | <i>common G.</i> . . . .               | Mar. . .           | Y.        | 2-4 in.   | P.        | 4-7                |
| ii. <i>C. alternifolium</i> , <i>L.</i> . . . .   | <i>alternate-leaved G.</i>             | Mar. . .           | Y.        | 2-4 in.   | P.        | 4-7                |
| Gen. III. <i>Parnassia</i> , <i>L.</i>            | <i>Grass of Parnassus.</i>             |                    |           |           |           |                    |
| i. <i>P. palustris</i> , <i>L.</i> . . . .        | <i>G. of P.</i> . . . . .              | Bogs . .           | W.        | 1-8 in.   | P.        | 8-9                |

## ORD. XXXVIII.—ARALIACEÆ.

|  |                            |            |      |         |      |       |
|--|----------------------------|------------|------|---------|------|-------|
| Gen. I. <i>Adoxa</i> , <i>L.</i>               | <i>Moschatel.</i>          |            |      |         |      |       |
| i. <i>A. Moschatellina</i> , <i>L.</i> . . . . | <i>tuberous M.</i> . . . . | Sha. pl. . | y G. | 4-6 in. | P.   | 4-5   |
| Gen. II. <i>Hedera</i> , <i>L.</i>             | <i>Ivy.</i>                |            |      |         |      |       |
| i. <i>H. Helix</i> , <i>L.</i> . . . .         | <i>common I.</i> . . . .   | Walls . .  | p G. | Climb.  | Shb. | 10-11 |



## ORD. XXXVII.--SAXIFRAGACEÆ—cont.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- iii. Ls. ob.-ovate, blunt, suddenly narrowed into a broad flat peti.
- a. Ls. obl.-orb., cren., in a compact rosette.  
 b. Ls. orb., serr., in a loose rosette—Peti. longer.  
 c. Ls. ob.-ov. sharply-toothed, erect.  
 d. Ls. doubly serrate.
- iv. Ls. cun.-lan., sess., in a rosette—Cyme lax.  
 v. Ls. ob.-ov., toothed, shortly stalked—Cyme dense.  
 \* \* \* *Ls. entire*—Stems leafy.
- vi. St. erect—Ls. lanc., alt., ent.; rad. ls. lanc. or spath., rosulate—Sep. reflex.
- vii. St. decumb.—St. ls. lin., alt., cili., crowded at base—Sep. conn., erect.
- viii. St. tufted—Ls. opp., ovate, obt. imbri.; upper ones cili.  
 \* \* \* *Ls. divided*.
- ix. St. erect, paniced; bulbiferous at base—Ls. reni., lobed.  
 x. St. erect, bulbiferous in axils—Ls. palmately lobed.
- xi. St. decumb.—Ls. palm., lobed, long-stalked—Cal. lobes acute.
- xii. St. erect—Ls. alt., cun., three or five fid., upper ent.—Cal. lobes obt.
- xiii. Flowering st. erect.; sterile st. decumb.—Rad. ls. three cleft; upper ones three cleft or ent.—Cal. lobes acute (a very variable plant).  
 a. Ls. of sterile shoots undivided, with axill. buds.  
 b. Ls. of sterile shoots three cleft, without axill. buds.  
 (These two varieties are connected by various forms, as *leptophylla* (Haw.) *elongella* (Sin.), *condensata* (Gmel.), *denudata* (Sin.), *pygmæa* (Don).)  
 c. Ls. all rosulate; 3-5 fid.; cal. lobes obt.  
 d. Sterile shoots, short—Ls. trifid; lobes acute—Pet. flat—Sep. triang.-ov.—Very hairy.  
 Of this there are two other doubtful varieties, *affinis* (Don), and *incurvifolia* (Don).
- xiv. Rad. ls. densely tufted, palm., hairy, 3-5 cleft; lobes obt.—Sep. obt.—St. 2-3 flowered.

## Gen. II.

- i. St. branched, decumb.—Ls. opp., lower shortly stalked.  
 ii. St. simp., erect—Ls. alt., lower long stalked.

## Gen. III.

- i. Rad. ls. ov., cord., long-stalked—St.-leaf sess.—Fls. sol., term.

## ORD. XXXVIII.—ARALIACEÆ.

## Gen. I.

- i. Rad. ls. tri.-tern. long-stalked; st. ls. tern.—Fls. in a term. five-flowered head.

## Gen. II.

- i. Ls. five-lobed, cord., variable—Fls. umbell.

## ORD. XXXIX.—CORNACEÆ.

| Botanical Name.                      | Common Name.                   | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|--------------------------------------|--------------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. I. Cornus, L.</b> . . . . .  | <i>Cornel, Dogwood.</i>        |                          |         |         |                |                       |
| i. <i>C. sanguinea, L.</i> . . . . . | <i>Wild C. or D.</i> . . . . . | Woods .                  | W.      | 5-6 ft. | Shb.           | 6-7                   |
| ii. <i>C. Suecica, L.</i> . . . . .  | <i>dwarf C.</i> . . . . .      | Alp. pas.                | pkW.    | 6-8 in. | P.             | 7-8                   |

## ORD. XL.—UMBELLIFERÆ.

|   |  |                      |      |          |    |     |
|---|--|----------------------|------|----------|----|-----|
| <b>Gen. I. Hydrocotyle, L.</b>                | <i>White-rot.</i>                          |                      |      |          |    |     |
| i. <i>H. vulgaris, L.</i> . . . . .           | <i>White-rot, or<br/>Marsh penny-wort.</i> | Bogs . .             | W.   | Cr.      | P. | 5-8 |
| <b>Gen. II. Sanicula, L.</b> . . . . .        | <i>Sanicle.</i>                            |                      |      |          |    |     |
| i. <i>S. Europæa, L.</i> . . . . .            | <i>Wood S.</i> . . . . .                   | Woods .              | W.   | 1-2 ft.  | P. | 6-7 |
| <b>Gen. III. Astrantia, L.</b>                |  |                      |      |          |    |     |
| [i. <i>A. major, L.</i> . . . . .             | . . . . .                                  | Woods !.             | pkW. | 1-2 ft.  | P. | 6-7 |
| <b>Gen. IV. Eryngium, L.</b>                  | <i>Eryngo.</i>                             |                      |      |          |    |     |
| i. <i>E. maritimum, L.</i> . . . . .          | <i>Sea Holly.</i> . . . . .                | Sand. sh.            | B.   | 1-2 ft.  | P. | 7-8 |
| ii. <i>E. canpestre, L.</i> . . . . .         | <i>Field E.</i> . . . . .                  | Sea sh. !.           | B.   | 1-2 ft.  | P. | 7-8 |
| <b>Gen. V. Conium, L.</b>                     | <i>Hemlock.</i>                            |                      |      |          |    |     |
| i. <i>C. maculatum, L.</i> . . . . .          | <i>common H.</i> . . . . .                 | Was. pl.             | W.   | 2-4 ft.  | B. | 6-7 |
| <b>Gen. VI. Physospermum</b><br><i>Cuss.</i>  | <i>Bladder-seed.</i>                       |                      |      |          |    |     |
| i. <i>P. cornubiense, Hook.</i>               | <i>Cornish B.</i> . . . . .                | Field !<br>Cornwall. | W.   | 1½-2 ft. | P. | 7-8 |
| <b>Gen. VII. Smyrnum, L.</b>                  | <i>Alexanders</i>                          |                      |      |          |    |     |
| i. <i>S. olusatrum, L.</i> . . . . .          | <i>common A.</i> . . . . .                 | Was. pl.             | y G. | 3-4 ft.  | B. | 4-6 |
| <b>Gen. VIII. Cicuta, L.</b>                  | <i>Cow-bane.</i>                           |                      |      |          |    |     |
| i. <i>C. virosa, L.</i> . . . . .             | <i>common C.</i> . . . . .                 | Ditches !            | W.   | 3-4 ft.  | P. | 6-8 |
| <b>Gen. IX. Apium, L.</b>                     | <i>Celery.</i>                             |                      |      |          |    |     |
| i. <i>A. graveolens, L.</i> . . . . .         | <i>wild C.</i> . . . . .                   | Salt mar.            | g W. | 1-2 ft.  | B. | 6-8 |
| <b>Gen. X. Petroselinum,</b><br><i>Hoffm.</i> | <i>Parsley.</i>                            |                      |      |          |    |     |
| [i. <i>P. sativum, Hoffm.</i> . . . . .       | <i>common P.</i> . . . . .                 | Old walls !          | Y.   | 1-2 ft.  | B. | 6-8 |
| ii. <i>P. segetum, Koch.</i> . . . . .        | <i>Corn P.</i> . . . . .                   | Banks .              | W.   | 1-1½ ft. | A. | 8-9 |
| <b>Gen. XI. Trinia, Hoffm.</b>                | <i>Hene-wort.</i>                          |                      |      |          |    |     |
| i. <i>T. vulgaris, DC.</i> . . . . .          | . . . . .                                  | Li. rocks !          | Y.   | 3-6 in.  | P. | 5-6 |

## ORD. XXXIX.—CORNACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. I.**

- i. Shrub—Fls. in term., dense-flowered cymes.
- ii. Herb—Fls. in term., few-flowered umbels.

## ORD. XL.—UMBELLIFERÆ.

**Gen. I.**

- i. Ls. peltate, cren.—Umbels five-flowered.

**Gen. II.**

- i. St. simple, leafless—Ls. all radical, palmate—Fls. sessile.

**Gen. III.**

- i. Rad. ls. palmate 5-7 partite ; lobes ov.-lanc., serr.—Invol. ent.]

**Gen. IV.**

- i. Rad. ls. spin., round, plaited, stalked, very glauc. ; upper ls. palm.
- ii. Rad. ls. tern. ; lobes pinnfid., spiny, pale green, upper ls. bi-pinnfid., amplex.

**Gen. V.**

- i. St. glab., spotted with purple—Partial invol. three-leaved, unilat.

**Gen. VI.**

- i. St. erect, paniced above—Lfts. cun., deeply cut—Umbels long-stalked.

**Gen. VII.**

- i. St. terete, stout—Rad. ls. yellow green with sheathing peti.—Umbels dense rounded.

**Gen. VIII.**

- i. St. furrowed, hollow—Ls. large ; rad. ones pinn. ; lfts. lanc., doubly serr., decurr.—Umbels large, flat.

**Gen. IX.**

- i. St. furrowed—Lfts. of rad. ls. round, lobed ; those of upper ls. cuneately notched—Umbels sess. or shortly stalked.

**Gen. X.**

- i. Ls. delt., bipinn., shining ; seg. of lower ls. trifiid—Fls. yellow.]
- ii. Ls. pinn., lower lfts. sess., lobed—Umbels drooping, irreg.—Fls. white.

**Gen. XI.**

- i. Root woody—Lfts. lin., filiform, glauc.—Fls. diæcious.

ORD. XL.—UMBELLIFERÆ—*cont.*

| Botanical Name.                      | Common Name.                       | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--------------------------------------|------------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. XII. Helosciadium, Koch.</b> | <i>Marsh-wort.</i>                 |                          |         |          |                |                       |
| i. <i>H. nodiflorum, Koch.</i>       | <i>procumbent M.</i>               | Bogs . .                 | W.      | Cr.      | P.             | 7-8                   |
| v. 2. <i>repens, Koch.</i>           |                                    |                          |         |          |                |                       |
| ii. <i>H. inundatum, Koch.</i>       | <i>least M.</i>                    | Pools . .                | W.      | Fl.      | P.             | 6-7                   |
| <b>Gen. XIII. Sison, L.</b>          | <i>Bastard Stone-<br/>parsley.</i> |                          |         |          |                |                       |
| i. <i>S. Amomum, L.</i>              |                                    | Waysides                 | W.      | 2-3 ft.  | B.             | 8-9                   |
| <b>Gen. XIV. Ægopodium, L.</b>       | <i>Gout-weed.</i>                  |                          |         |          |                |                       |
| i. <i>Æ. Podagraria, L.</i>          | <i>G. or Bishop-weed</i>           | Damp pl.                 | g W.    | 1-2 ft.  | P.             | 6-8                   |
| <b>Gen. XV. Carum, L.</b>            | <i>Caraway.</i>                    |                          |         |          |                |                       |
| i. <i>C. Carui, L.</i>               | <i>common C.</i>                   | Was. pl.                 | W.      | 1-2 ft.  | B.             | 6-7                   |
| ii. <i>C. verticillatum, Koch.</i>   | <i>whorled-C.</i>                  | Past.!                   | pkW.    | 1-2 ft.  | P.             | 7-8                   |
| iii. <i>C. Bulbocastanum, Koch.</i>  | <i>tuberous C.</i>                 | Ch. fie.!                | W.      | 1-2 ft.  | P.             | 6-7                   |
| <b>Gen. XVI. Bunium, Koch.</b>       | <i>Earthnut.</i>                   |                          |         |          |                |                       |
| i. <i>B. flexuosum, With.</i>        | <i>common E.</i>                   | Past. . .                | W.      | 2-3 ft.  | P.             | 5-6                   |
| <b>Gen. XVII. Pimpinella, L.</b>     | <i>Burnet Saxifrage.</i>           |                          |         |          |                |                       |
| i. <i>P. Saxifraga, L.</i>           | <i>common B.</i>                   | Dry pas.                 | W.      | 1-2 ft.  | P.             | 7-9                   |
| ii. <i>P. magna, L.</i>              | <i>large B.</i>                    | Bushy pl.                | W.      | 3-4 ft.  | P.             | 7-8                   |
| <b>Gen. XVIII. Sium, L.</b>          | <i>Water Parsnep.</i>              |                          |         |          |                |                       |
| i. <i>S. latifolium, L.</i>          | <i>broad-leaved W.</i>             | Wet pl.                  | W.      | 3-4 ft.  | P.             | 7-8                   |
| ii. <i>S. angustifolium, L.</i>      | <i>narrow-leaved W.</i>            | Ditches .                | W.      | 1-3 ft.  | P.             | 7-8                   |
| <b>Gen. XIX. Bupleurum, L.</b>       | <i>Hare's-ear.</i>                 |                          |         |          |                |                       |
| i. <i>B. tenuissimum, L.</i>         | <i>slender H.</i>                  | Salt mar.!               | Y.      | 6-12 in. | A.             | 8-9                   |
| ii. <i>B. aristatum, Bartl.</i>      | <i>narrow-leaved H.</i>            | Rocky pl.!               | Y.      | 2-8 in.  | A.             | 7-8                   |
| iii. <i>B. falcatum, L.</i>          | <i>falcate-leaved H.</i>           | Ongar<br>Heath!          | Y.      | 2-4 ft.  | P.             | 8-9                   |
| iv. <i>B. rotundifolium, L.</i>      | <i>common H.</i>                   | Corn fie.                | Y.      | 1-1½ ft. | A.             | 6-7                   |
| <b>Gen. XX. Œnanthe, L.</b>          | <i>Water-dropwort.</i>             |                          |         |          |                |                       |
| i. <i>Œ. fistulosa, L.</i>           | <i>common W.</i>                   | Ditches .                | W.      | 2-3 ft.  | P.             | 7-9                   |
| ii. <i>Œ. pimpinelloides, L.</i>     | <i>callous-fruited W.</i>          | Past.!                   | W.      | 1-3 ft.  | P.             | 6-8                   |
| iii. <i>Œ. Lachenalii, Gmel.</i>     | <i>Parsley W.</i>                  | Salt mar.                | W.      | 1-3 ft.  | P.             | 6-8                   |
| iv. <i>Œ. silaifolia, Bieb.</i>      | <i>Sulphur-wort</i>                | Marshes!                 | W.      | 1-3 ft.  | P.             | 6-7                   |
| v. <i>Œ. crocata, L.</i>             | <i>Hemlock W.</i>                  | Marshes                  | W.      | 2-5 ft.  | P.             | 7-8                   |
| vi. <i>Œ. Phellandrium, Lam.</i>     | <i>fine-leaved W.</i>              | Ditches .                | W.      | 1-4 ft.  | B.             | 7-9                   |
| vii. <i>Œ. fluviatilis, Colem.</i>   | <i>River W.</i>                    | Streams .                | W.      | 1-4 ft.  | B.             | 7-9                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XII.

- i. Lfts. ov.-lanc., bluntly serr.—Umbels sub-sess., opp. the ls.
- v. 2. *Smaller—Lfts. acutely serr.—Umbels stalked.*
- ii. St. creeping or submerged—Lower ls. capillaceo-multifid; upper or flo. ls. pinn.—Umbels mostly of two rays.

## Gen. XIII.

- i. Lower ls. pinn.; lfts. obl., serr.—Upper ls. smaller—Umbel irregular.

## Gen. XIV.

- i. St. grooved, fistular—Ls. bi., or tri.-tern.; lfts. sharply serr., ov., acum.

## Gen. XV.

- i. St. branched—Root fusiform—Ls. narrow-triang., bipinn.; lfts. with lin. seg.
- ii. St. slightly branched—Root fascicled—Ls. narrow; lfts. whorled, seg. capill.
- iii. St. erect, much branched—Root tuberous—Ls. broadly triang.; lfts. lin., not whorled.

## Gen. XVI.

- i. St. slender, flex, leafless at base—Root tuberous—Lfts. pinnfid.; seg. lin.

## Gen. XVII.

- i. Lfts. of lower ls. roundish, serr., variable; those of upper ls. with lin. seg.
- ii. Lfts. all ovate, serr.; term. one three-lobed.

## Gen. XVIII.

- i. Lfts. obl.-lanc. equally serr.—Umbels term.
- ii. Lfts. ov., unequally lobed and serr.—Umbels lateral.

## Gen. XIX.

- i. Ls. lin.-lanc.—Umbels term. and axill., sess. very small—Bracts. subulate.
- ii. Ls. lanc., striate, rigid, yellow—Umbels term.—Bracts. lanc., cusp.
- iii. Lower ls. ellip., long-stalked; upper ls. lin.-lanc.—Bracts. five lanc.]
- iv. Ls. oval, acute, perfoliate—Bracts. oval, leafy, connate.

## Gen. XX.

- i. Root stoloniferous—St. ls. pinn., fili., fistulous—Invol. none.
- ii. Root fibres tuberous—Rad. ls. bipinn.; lfts. cuneate, acutely cut, upper lfts. lin., ent.—Invol. many-leaved, linear—Fr. with a swollen base.
- iii. Root fibres fleshy—Lfts. of lower ls. obl., ent., bluntly lobed; upper lfts. lin., acu.—Fr. narrowed below.
- iv. Root of ellip., obl., knots—Lfts. all lin., acute—Invol. o.
- v. Root of large fusiform tubers—Lfts. stalked cuneate, variously cut; upper narrower—Fr. ent., obl., cylind.
- vi. Aquatic—Rt. fibr.—St. erect—Segm. of submerged ls. with multifid diverging segments.
- vii. Aquatic—Rt. fibr.—St. floating—Segm. of submerged ls. with parallel segments.

ORD. XL.—UMBELLIFERÆ—*cont.*

| Botanical Name.                                       | Common Name.                                | Soil<br>or<br>Situation. | Colour | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|--------|----------|----------------|-----------------------|
| <b>Gen. XXI. <i>Æthusa</i>, L.</b>                    | <i>Fool's-Parsley.</i>                      |                          |        |          |                |                       |
| i. <i>Æ. Cynapium</i> , L. . .                        | <i>common F.</i> . . .                      | Waste pl.                | W.     | 1-1½ ft. | A.             | 7-8                   |
| <b>Gen. XXII. <i>Fœniculum</i>,<br/><i>Hoffm.</i></b> | <i>Fennel.</i>                              |                          |        |          |                |                       |
| i. <i>F. vulgare</i> , Gaert. . .                     | <i>Fennel</i> . . . . .                     | Sea cliffs               | Y.     | 3-5 ft.  | P.             | 7-8                   |
| <b>Gen. XXIII. <i>Seseli</i>, L. .</b>                | <i>Meadow Saxi-<br/>frage.</i>              |                          |        |          |                |                       |
| i. <i>S. Libanotis</i> , Koch. .                      | <i>Mountain M.</i> . .                      | Ch. pas.!                | W.     | 1-2 ft.  | P.             | 7-8                   |
| <b>Gen. XXIV. <i>Ligusticum</i>,<br/>L.</b>           | <i>Lovage.</i>                              |                          |        |          |                |                       |
| i. <i>L. Scoticum</i> , L.                            | <i>Scottish L.</i> . . .                    | Sea rocks!               | pkW.   | 1-3 ft.  | P.             | 7                     |
| <b>Gen. XXV. <i>Silaus</i>, Bess.</b>                 | <i>Pepper-Saxifrage.</i>                    |                          |        |          |                |                       |
| i. <i>S. pratensis</i> , Bess. . .                    | <i>common P.</i> . . .                      | Past. . .                | Y.     | 1-3 ft.  | P.             | 7-9                   |
| <b>Gen. XXVI. <i>Meum</i>,<br/><i>Tourn.</i></b>      | <i>Spignel.</i>                             |                          |        |          |                |                       |
| i. <i>M. athamanticum</i> ,<br><i>Jacq.</i>           | <i>S., Bald-money,<br/>or Meu.</i>          | Alp. past.               | yW.    | 6-18 in. | P.             | 6-7                   |
| <b>Gen. XXVII. <i>Crithmum</i>,<br/>L.</b>            | <i>Samphire.</i>                            |                          |        |          |                |                       |
| i. <i>C. maritimum</i> , L. . .                       | <i>Sea S.</i> . . . . .                     | Sea rocks                | W.     | 6-10 in. | P.             | 5-8                   |
| <b>Gen. XXVIII. <i>Angelica</i>,<br/>L.</b>           | <i>Angelica.</i>                            |                          |        |          |                |                       |
| i. <i>A. sylvestris</i> , L. . . .                    | <i>wild A.</i> . . . . .                    | Moi. wds.                | W.     | 2-3 ft.  | P.             | 7-8                   |
| <b>Gen. XXIX. <i>Peucedanum</i>, L.</b>               | <i>Hog's-fennel.</i>                        |                          |        |          |                |                       |
| i. <i>P. officinale</i> , L. . . .                    | <i>Sea H., or Sea<br/>Sulphur Weed.</i>     | Salt mar.!               | Y.     | 2-3 ft.  | P.             | 7-9                   |
| ii. <i>P. palustre</i> , Mœnch. .                     | <i>Marsh H., or Milk<br/>Parsley.</i>       | Bogs! . .                | W.     | 4-5 ft.  | P.             | 7-8                   |
| iii. <i>P. Ostruthium</i> , Koch.                     | <i>broad-leaved H., or<br/>Master-wort.</i> | Moist<br>mead.!          | W.     | 2-3 ft.  | P.             | 6-7                   |
| <b>Gen. XXX. <i>Pastinaca</i>, L.</b>                 | <i>Parsnep.</i>                             |                          |        |          |                |                       |
| i. <i>P. sativa</i> , L. . . . .                      | <i>wild P.</i> . . . . .                    | Was. pl. .               | Y.     | 2-3 ft.  | B.             | 7-8                   |
| <b>Gen. XXXI. <i>Heracleum</i>,<br/>L.</b>            | <i>Cow-Parsnep.</i>                         |                          |        |          |                |                       |
| i. <i>H. Sphondylium</i> , L.                         | <i>C., or Hog-weed..</i>                    | Was. pl. .               | rW.    | 4-5 ft.  | B.             | 7-8                   |

ORD. XL.—UMBELLIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. XXI.**

- i. St. branched, leafy—Lfts. cuneate, lanc., decurr.—Invol. bracts. three, long, pendulous.

**Gen. XXII.**

- i. Lfts. capill., flaccid ; upper ones long—Fls. yellow

**Gen. XXIII.**

- i. Ls. sess., hairy ; lfts. cut, seg. lanc., mucro.—Invol. bracts many.

**Gen. XXIV.**

- i. Ls. mostly radical ; lfts. dull green, sub-rhomb., dent.-serr.—Invol. of 5-7 ls.

**Gen. XXV.**

- i. Lfts. opp., lin.-lanc., ent. or three-lobed—Invol. of 1-2 s.

**Gen. XXVI.**

- i. Lfts. multi-partite ; segm. bristle-shaped, aromatic.

**Gen. XXVII.**

- i. Lfts. fleshy, lanc., lax—Invol. of many lanc. ls.

**Gen. XXVIII.**

- i. Lfts. equal, serr.—Teeth of cal. obsolete.

**Gen. XXIX.**

- i. Ls. five times partite ; segm. lin., flaccid—Umbel large ; fls. yellow—Bracts few, decid.  
 ii. Ls. tripinn. ; lfts. pinnfid., seg. lin.-lanc.—Fls. white—Bracts many, persistent.  
 iii. Ls. bi-tern. ; lfts. ovate, serrate.

**Gen. XXX.**

- i. Lfts. ovate, downy beneath, cut and serr.—Fls. yellow—Invol. bracts o.

**Gen. XXXI.**

- i. Lfts. few, pinnfid., or lobed, serr., rough, hairy—Pet. unequal.

ORD. XL.—UMBELLIFERÆ—*cont.*

| Botanical Name.                        | Common Name.                  | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--|-------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. XXXII. Tordylium, L.</b>       | <i>Hart-wort.</i>             |                          |         |          |                |                       |
| i. <i>T. maximum, L.</i> . . .         | <i>great H.</i> . . . .       | Waysides!                | r W.    | 1-2 ft.  | A.             | 6-7                   |
| <b>Gen. XXXIII. Daucus, L.</b>         | <i>Carrot.</i>                |                          |         |          |                |                       |
| i. <i>D. carota, L.</i> . . . .        | <i>wild Carrot</i> . . .      | Past. . .                | W.      | 1-2 ft.  | B.             | 6-8                   |
| v. 2. <i>maritimus, With.</i>          | <i>Sea Carrot</i> . . .       | Sea sh.                  | . .     | . .      | . .            | . .                   |
| <b>Gen. XXXIV. Caucalis, L.</b>        | <i>Bur-Parsley.</i>           |                          |         |          |                |                       |
| i. <i>C. daucoides, L.</i> . .         | <i>small B.</i> . . . .       | Corn fie..               | dkW.    | 6-18 in. | A.             | 6-7                   |
| [ii. <i>C. latifolia, L.</i> . . .     | <i>great B.</i> . . . .       | Ch. fie.!                | Ro.     | 6-18 in. | A.             | 6-7                   |
| <b>Gen. XXXV. Torilis, L.</b>          | <i>Hedge Parsley.</i>         |                          |         |          |                |                       |
| i. <i>T. Anthriscus, Gaert.</i>        | <i>upright H.</i> . . .       | Waste pl.                | W.      | 2-3 ft.  | A.             | 7-9                   |
| ii. <i>T. infesta, Spr.</i> . . .      | <i>spreading H.</i> . .       | Corn fie..               | W.      | 4-12 in. | A.             | 6-9                   |
| iii. <i>T. nodosa, Gaert.</i> . .      | <i>knotted H.</i> . . .       | Waste pl.                | r W.    | 6-18 in. | A.             | 5-7                   |
| <b>Gen. XXXVI. Scandix, L.</b>         | <i>Shepherd's-Needle.</i>     |                          |         |          |                |                       |
| i. <i>S. Pecten-Veneris, L.</i>        | <i>S., or Venus's Comb.</i>   | Corn fie..               | W.      | 4-12 in. | A.             | 6-9                   |
| <b>Gen. XXXVII. Anthriscus, Hoffm.</b> | <i>Beaked Parsley.</i>        |                          |         |          |                |                       |
| i. <i>A. vulgaris, Pers.</i> . .       | <i>common B.</i> . . .        | Waysides                 | W.      | 2-3 ft.  | B.             | 5-6                   |
| ii. <i>A. sylvestris, Hoffm.</i>       | <i>wild B.</i> . . . .        | Waysides                 | W.      | 3-4 ft.  | P.             | 4-6                   |
| liii. <i>A. Cerefolium, Hoffm.</i>     | <i>Garden B., or Chervil.</i> | Hedges .                 | W.      | 1-1½ ft. | A.             | 5-7                   |
| <b>Gen. XXXVIII. Chærophyllum, L.</b>  | <i>Chervil.</i>               |                          |         |          |                |                       |
| i. <i>C. temulum, L.</i> . . .         | <i>rough Chervil</i> . .      | Waysides                 | W.      | 1-3 ft.  | B.             | 6-7                   |
| <b>Gen. XXXIX. Myrrhis, Tourn.</b>     | <i>Cicely.</i>                |                          |         |          |                |                       |
| i. <i>M. odorata, Scop.</i> . .        | <i>sweet C.</i> . . . .       | Northern past.           | W.      | 2-3 ft.  | P.             | 5-6                   |
| <b>Gen. XL. Coriandrum, L.</b>         | <i>Coriander.</i>             |                          |         |          |                |                       |
| [i. <i>C. sativum, L.</i> . . . .      | . . . .                       | Was. pl..                | pkW.    | 1-2 ft.  | A.             | 6-7                   |

## ORD. XLI.—LORANTHACEÆ.

|                                |                        |              |    |         |      |     |
|--------------------------------|------------------------|--------------|----|---------|------|-----|
| <b>Gen. I. Viscum, L.</b>      | <i>Mistletoe.</i>      |              |    |         |      |     |
| 1. <i>V. album, L.</i> . . . . | <i>common M.</i> . . . | Apple trees. | G. | 1-3 ft. | Shb. | 3-5 |



ORD. XL.—UMBELLIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XXXII.

- i. St. hispid, with reflexed hairs—Lfts. lanc., deeply serr.—Umbels small, crowded.

## Gen. XXXIII.

- i. Lfts. pinnfid. ; seg. acute—Central fl. purple—Umbel in fr. concave.  
 v. 2. *Lfts. more fleshy—Umbels in fr. convex.*

## Gen. XXXIV.

- i. St. furrowed, hairy at joints—Ls. bipinn. ; lfts. lin. acute—Umbels trifid ; branched three-seeded.  
 ii. St. scabrous—Ls. pinn. ; lfts. lanc., serr.—Umbels trifid ; branches five-seeded.]

## Gen. XXXV.

- i. St. erect—Umbels stalked, term.—Invol. of many ls.—Fr. bristles not hooked.  
 ii. St. erect, much branched—Umbels stalked, term.—Invol. of one leaf—Fr. scabrous with hooked bristles.  
 iii. St. prost., spreading—Umbels lat., sess.—Fr. with hooked bristles.

## Gen. XXXVI.

- i. St. erect—Lfts. many partite ; seg. lin.—Bracts. long, ent. or bifid.

## Gen. XXXVII.

- i. Umbels lat., stalked—Fr. ovate, hispid.  
 ii. Umbels term., stalked—Fr. lin., glab.—Beak short.  
 iii. Umbels lat., sess.—Fr. lin., glab.—Beak long.

## Gen. XXXVIII.

- i. Joints of st. swollen—Ls. rough, spotted ; lfts. ovate, cut ; seg. obt., mucro.

## Gen. XXXIX.

- i. Ls. tripinn., whitish beneath—Invol. bracts. lanc., acum.

## Gen. XL.

- i. St. fistular, slender—Ls. deltoid, bipinn. ; upper lfts. lin., fleshy, lax.]

## ORD. XLI.—LORANTHACEÆ.

## Gen. I.

- i. St. much branched—Ls. ob.-ov., lanc.—Fls. in axill. clusters.

## ORD. XLII.—CAPRIFOLIACEÆ.

| Botanical Name.                    | Common Name.                              | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|------------------------------------|---|--------------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. I. Sambucus, L.</b>        | <i>Elder.</i>                             |                          |         |           |                |                       |
| i. <i>S. nigra, L.</i> . . . .     | <i>common E.</i> . . . .                  | Woods .                  | W.      | 10-12 ft. | T.             | 6                     |
| ii. <i>S. Ebulus, L.</i> . . . .   | <i>dwarf E., or<br/>Dane-wort.</i>        | Was. pl..                | puW.    | 2-3 ft.   | P.             | 7-8                   |
| <b>Gen. II. Viburnum, L.</b>       | <i>Guellder-rose.</i>                     |                          |         |           |                |                       |
| i. <i>V. Opulus, L.</i> . . . .    | <i>common G.</i> . . . .                  | Woods .                  | W.      | 6-8 ft.   | Shb.           | 6-7                   |
| ii. <i>V. Lantana, L.</i> . . . .  | <i>mealy G., or Way-<br/>faring tree.</i> | Woods .                  | W.      | 10-20 ft. | Shb.           | 5-6                   |
| <b>Gen. III. Lonicera, L.</b>      | <i>Honey-suckle.</i>                      |                          |         |           |                |                       |
| i. <i>L. Periclymenum, L.</i>      | <i>H., or Woodbine.</i>                   | Hedges .                 | R.      | Cli.      | Shb.           | 6-9                   |
| [ii. <i>L. caprifolium, L.</i> . . | <i>perfoliate H.</i> . .                  | Woods! .                 | R.      | Cli.      | Shb.           | 5-6                   |
| [iii. <i>L. Xylosteum, L.</i> . .  | <i>upright Fly H.</i> .                   | Thick! .                 | Y.      | 3-5 ft.   | Shb.           | 5-6                   |
| <b>Gen. IV. Linnæa, Gronov.</b>    | <i>Linnæa.</i>                            |                          |         |           |                |                       |
| i. <i>L. borealis, Gro.</i> . . .  | <i>two-flowered L.</i> .                  | Sco. woods               | Pk.     | 3-8 in.   | P.             | 7                     |

## ORD. XLIII.—RUBIACEÆ.

|  |  |                       |       |          |       |       |
|--|--|-----------------------|-------|----------|-------|-------|
| <b>Gen. I. Rubia, L.</b>                         | <i>Madder.</i>                         |                       |       |          |       |       |
| i. <i>R. peregrina, L.</i> . . . .               | <i>wild M.</i> . . . .                 | Sto. pl!<br>SW. of E. | Y.    | 1-2 ft.  | P.    | 6-8   |
| <b>Gen. II. Galium, L.</b>                       | <i>Bed-straw.</i>                      |                       |       |          |       |       |
| *<br>i. <i>G. verum, L.</i> . . . .              | <i>yellow B.</i> . . . .               | Downs                 | Y.    | 1-2 ft.  | P.    | 6-9   |
| v. 2. <i>ochroleucum</i> . . . .                 | .....                                  | .....                 | Y.    | .....    | ..... | ..... |
| ii. <i>G. cruciatum, With.</i>                   | <i>Cross-wort B., or<br/>Mug-wort.</i> | Waysides              | Y.    | 6-18 in. | P.    | 4 6   |
| * *<br>A.<br>iii. <i>G. palustre, L.</i> . . . . | <i>white Water B.</i> .                | Mar. . .              | W.    | 1-3 ft.  | P.    | 7-8   |
| v. 2. <i>elongatum, Presl.</i> . .               | .....                                  | .....                 | ..... | .....    | ..... | ..... |
| v. 3. <i>Witheringii, Sm.</i> . .                | .....                                  | .....                 | ..... | .....    | ..... | ..... |
| iv. <i>G. uliginosum, L.</i> . . .               | <i>rough Water B.</i> .                | Mar. . .              | W.    | 2-5 ft.  | P.    | 7-8   |
| B.<br>v. <i>G. saxatile, L.</i> . . . .          | <i>smooth Heath B.</i>                 | Downs .               | W.    | 4-6 in.  | P.    | 6-8   |
| vi. <i>G. erectum, Huds.</i> . . .               | <i>upright B.</i> . . . .              | Downs .               | W.    | 1-2 ft.  | P.    | 6-8   |
| v. 2. <i>aristatum, Sm.</i> . . . .              | .....                                  | .....                 | ..... | .....    | ..... | ..... |
| vii. <i>G. mollugo, L.</i> . . . .               | <i>great Hedge B.</i> .                | Hedges .              | W.    | 1-4 ft.  | P.    | 7-8   |
| v. 2. <i>scabrum, With.</i> . . .                | .....                                  | .....                 | ..... | .....    | ..... | ..... |
| v. 3. <i>insubricum, Gaud.</i> . .               | .....                                  | .....                 | ..... | .....    | ..... | ..... |

## ORD. XLII.—CAPRIFOLIACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. Tree—Cymes with five branches—Stip. o.
- ii. Herb—Cymes three fid.—Stip. leafy.

## Gen. II.

- i. Ls. three-lobed, acum., glab.
- ii. Ls. ellip., cord., downy beneath—Young shoots downy.

## Gen. III.

- i. St. climb.—Ls. oval, sess.—Fls. in term., stalked heads—Fr. red.
- ii. St. climb.—Upper ls. connate, perfol.—Fls. in term., sess., whorls—Fr. orange.]
- iii. St. erect—Ls. oval, downy—Fls. axill. in pairs—Fr. scarlet.]

## Gen. IV.

- i. St. creeping ; pedunc. erect, two-flowered—Ls. ovate, opp.—Cor. campan.

## ORD. XLIII.—RUBIACEÆ.

## Gen. I.

- i. Ls. obl. 4-6 in a whorl, evergreen, rough—Fls. in term. and axill. cymes.

## Gen. II.

\* *Flowers yellow.*

- i. Ls. eight, lin., rough—Fls. term. and axill. in dense pan.
- v. 2. *Fls. pale yellow (a hybrid between this and the next). (Deal.)*
- ii. Ls. four, ovate, hairy—Fls. axill., whorled.

\* \* *Fls. white.*

*A. Root perennial—St. with reflexed bristles.*

- iii. Ls. 4-6 obl.-lanc., obt., slightly cili.—St. diffuse, rough—Fr. smooth on spreading pedi.
- v. 2. *Much larger—St. thicker, less branched—Ls. longer.*
- v. 3. *Like var. 2, but margins of ls. with more prickles—Ls. narrower and recurved—Pan. narrow.*
- iv. St. slender, weak—Ls. 6-8 lin.-lanc., rigid, mucro.—Fr. granulated on erect stalks
- B. Root perennial—St. without reflexed bristles.*
- v. St. prost., tufted—Ls. six, ob.-ov., mucro.—Fr. stalks erect ; fr. granulated.
- vi. St. erect—Ls. (6-8) lin.-lanc., glauc., with prickles pointing forward—Pan. with slender, erect branches—Fr. smooth.
- v. 2. *Leaves larger and narrower.*
- vii. St. long and straggling, thick at joints—Ls. eight, ellip., obt., mucro., margins rough, with prickles pointing forward or erect—Pan. with spreading branches—Fr. glab.
- v. 2. *Stem rough and hairy.*
- v. 3. *Ls. six, ob.-ov.—Branches of pan. few-flowered.*

ORD. XLIII.—RUBIACEÆ—*cont.*

| Botanical Name.                       | Common Name.                    | Soil<br>or<br>Situation.      | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering |
|---------------------------------------|---------------------------------|-------------------------------|---------|----------|----------------|----------------------|
| v. 4. <i>Bakeri</i> , Syme. . . .     |                                 |                               |         |          |                |                      |
| viii. <i>G. sylvestre</i> , Poll. . . | mount B. . . . .                | Lim. hills!                   | W.      | 3-6 in.  | P.             | 7-8                  |
| v. 2. <i>nitidulum</i> , Thuil. . .   |                                 |                               |         |          |                |                      |
| ix. <i>G. boreale</i> , L. . . . .    | cross-leaved B. . .             | Moi. rocks<br>N. in the<br>N. | W.      | 1-2 ft.  | P.             | 6-3                  |
|                                       | C.                              |                               |         |          |                |                      |
| x. <i>G. Aparine</i> , L. . . . .     | Goose-grass, or<br>Cleavers.    | Hedges .                      | W.      | 1-5 ft.  | A.             | 6-7                  |
| v. 2. <i>Vaillantii</i> , DC.         |                                 |                               |         |          |                |                      |
| xi. <i>G. tricorne</i> , With. . .    | rough-fruited<br>Corn B.        | Cha. fie..                    | W.      | 1-3 ft.  | A.             | 6-10                 |
| xii. <i>G. anglicum</i> , Hud. . .    | Wall B. . . . .                 | San. pl.<br>SE. of E.         | W.      | 6-12 in. | A.             | 6-7                  |
| Gen. III. <i>Sherardia</i> , L.       | Field Madder.                   |                               |         |          |                |                      |
| i. <i>S. arvensis</i> , L. . . . .    | blue S. or F. . . .             | Corn fie..                    | Li.     | 6-12 in. | A.             | 4-10                 |
| Gen. IV. <i>Asperula</i> , L.         | Woodruff.                       |                               |         |          |                |                      |
| i. <i>A. odorata</i> , L. . . . .     | sweet W. . . . .                | Sh. woods                     | W.      | 6-8 in.  | A.             | 5-6                  |
| ii. <i>A. cynanchica</i> , L. . .     | small W., or<br>Squinancy-wort. | Downs .                       | Pk.     | 6-10 in. | P.             | 6-7                  |

## ORD. XLIV.—VALERIANACEÆ.

|  |                                  |            |       |          |       |       |
|--|----------------------------------|------------|-------|----------|-------|-------|
| Gen. I. <i>Centranthus</i> , DC.                   | Spur-Valerian.                   |            |       |          |       |       |
| [i. <i>C. ruber</i> , DC. . . . .                  | red S. . . . .                   | Ch. pits . | Ro.   | 1-2 ft.  | P.    | 6-9   |
| Gen. II. <i>Valeriana</i> , L.                     | Valerian.                        |            |       |          |       |       |
| i. <i>V. dioica</i> , L. . . . .                   | small marsh V. . .               | Mar. . .   | Ro.   | 6-8 in.  | P.    | 5-6   |
| ii. <i>V. officinalis</i> , L. . . .               | great wild V. . . .              | Moi. wds.  | Fl.   | 2-4 ft.  | P.    | 6-8   |
| a. <i>Mikanii</i> . . . . .                        | . . . . .                        | . . . . .  | . . . | . . .    | . . . | . . . |
| b. <i>sambucifolia</i> , Mik. . . .                | . . . . .                        | . . . . .  | . . . | . . .    | . . . | . . . |
| [iii. <i>V. pyrenaica</i> , L. . . .               | heart-leaved V. . .              | Woods, Sc. | . . . | . . .    | . . . | . . . |
| Gen. III. <i>Valerianella</i> ,<br><i>Tournef.</i> | Corn-salad.                      |            |       |          |       |       |
| *  |                                  |            |       |          |       |       |
| i. <i>V. olitoria</i> , Mæench. . .                | common C., or<br>Lamb's-lettuce. | Corn fie.. | ♂ B.  | 3-12 in. | A.    | 4-6   |
| ii. <i>V. carinata</i> , Lois. . .                 | carinate C. . . . .              | Banks! .   | ♂ Li. | 6-12 in. | A.    | 4-6   |
| iii. <i>V. Auricula</i> , DC. . . .                | sharp-fruited C. . .             | Corn fie.. | ♂ B.  | 6-12 in. | A.    | 6-8   |
| iv. <i>V. dentata</i> , Koch. . . .                | smooth C. . . . .                | Corn fie.. | Fl.   | 6-12 in. | A.    | 6-8   |

ORD. XLIII.—RUBIACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

v. 4. *Ls.* 6-8 *lin.*

viii. *St.* diffuse—*Ls.* 6-8 *lin.-lanc.*, cili., bristle-pointed—*Fr.* stalks spreading; *fr.* minutely granulate.

v. 2. *Ls. narrow, margins revolute—Pan. compact.*

ix. *St.* erect—*Ls.* four, *lanc.*, glab.—*Fr.* covered with hooked-bristles.

*C. Root annual.*

x. *St.* straggling—*Ls.* *lanc.*, keeled, rough with reflexed prickles—*Fr.* covered with hooked bristles.

v. 2. *Fls. very small, greenish yellow (Saffron-Walden).*

xi. *St.* procumb., spreading—*Ls.* 6-8 *lin.-lanc.*, rough with reflexed prickles—*Cymes* three-flowered—*Fr.* large, granulated, drooping.

xii. *St.* slender, spreading—*Ls.* six, *lin.-lanc.*, mucro., with prickles pointing forward—*Fr.* minute, tubercled.

## Gen. III.

i. *Ls.* 4-6 *obl.-lanc.*, acute—*Fls.* in term., sess., umbels.

## Gen. IV.

i. *Ls.* 6-8 *obl.-lanc.* all equal—*Fls.* white—*Fr.* hispid.

ii. *Ls.* four, *lin.*, very unequal—*Fls.* pink—*Fr.* rugose.

## ORD. XLIV.—VALERIANACEÆ.

## Gen. I.

i. *Ls.* ov.-*lanc.*—*Fls.* in term., pan., cymes—*Spur* slender.]

## Gen. II.

i. *Rad.* *ls.* ov.; *st.* *ls.* pinnfid.

ii. *Ls.* all pinn.; *lfts.* *lanc.*

a. *Lfts.* 6-10 pairs.

b. *Lfts.* 4-6 pairs.

iii. *Ls.* large, cord., deeply serr.; upper with one or two pair of small basal *lfts.*]

## Gen. III.

\* *Fertile cell corky.*

i. *Fls.* in dense cymes—*Fr.* compressed, crowned with three minute, reflexed teeth.

\*\* *Fertile cell not corky.*

ii. *Fls.* in dense cymes—*Fr.* obl. crowned with one straight tooth—Barren cells contiguous, equal to fertile cell.

iii. *Fls.* in lax cymes—*Fr.* sub-glob., turgid, crowned with one erect tooth—Barren cells contiguous, larger than fertile cell.

iv. *Fls.* in lax cymes—*Fr.* ov., flattish, crowned with a four-toothed lobe—Barren cells remote, very small.

## ORD. XLV.—DIPSACEÆ.

| Botanical Name.                     | Common Name.              | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|-------------------------------------|---------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. I. Dipsacus, L.</b>         | <i>Teasel.</i>            |                          |         |         |                |                       |
| i. <i>D. sylvestris, L.</i> . . . . | <i>wild T.</i> . . . .    | Was. pl..                | ♂Pu.    | 4-5 ft. | P.             | 8-9                   |
| i. <i>D. pilosus, L.</i> . . . .    | <i>small T.</i> . . . .   | Moi. wds.                | W.      | 2-4 ft. | P.             | 8-9                   |
| <b>Gen. II. Scabiosa, L.</b>        | <i>Scabious.</i>          |                          |         |         |                |                       |
| i. <i>S. succisa, L.</i> . . . .    | <i>Devil's-bit S.</i> . . | Pas. . . .               | ♂uB.    | 1-2 ft. | P.             | 7-10                  |
| ii. <i>S. columbaria, L.</i> . .    | <i>small S.</i> . . . .   | Dry hths.                | Li.     | 1-2 ft. | P.             | 7-8                   |
| <b>Gen. III. Knautia, L.</b>        | <i>Knautia.</i>           |                          |         |         |                |                       |
| i. <i>K. arvensis, Coult.</i> . .   | <i>Field K.</i> . . . .   | Corn fie..               | Li.     | 2-5 ft. | P.             | 6-8                   |

## ORD. XLVI.—COMPOSITÆ.

|                                       |                                  |            |     |          |     |      |
|---------------------------------------|----------------------------------|------------|-----|----------|-----|------|
| <b>Gen. I. Tragopogon, L.</b>         | <i>Goat's-beard.</i>             |            |     |          |     |      |
| i. <i>T. pratensis, L.</i> . . . .    | <i>yellow G.</i> . . . .         | Was. pl..  | Y.  | 1-2 ft.  | B.  | 6-7  |
| v. 2. <i>minor, Fries.</i> . . . .    | . . . .                          | . . . .    | . . | . .      | . . | . .  |
| v. 3. <i>grandiflorus, Sy.</i> . .    | . . . .                          | . . . .    | . . | . .      | . . | . .  |
| ii. <i>T. porrifolius, L.</i> . .     | <i>purple G. or<br/>Salsify.</i> | Moi. mead. | Pu. | 1-2 ft.  | P.  | 5-6  |
| v. 2. <i>parviflorus, Sy.</i> . .     | . . . .                          | . . . .    | . . | . .      | . . | . .  |
| <b>Gen. II. Helminthia,<br/>Fuss.</b> | <i>Ox-tongue.</i>                |            |     |          |     |      |
| i. <i>echioides, Gaert.</i> . .       | <i>bristly O.</i> . . . .        | Waysides   | Y.  | 2-3 ft.  | A.  | 6-10 |
| <b>Gen. III. Picris, L.</b>           | <i>Picris.</i>                   |            |     |          |     |      |
| i. <i>P. hieracioides, L.</i> . .     | <i>Hawkweed P.</i> . .           | Waysides   | Y.  | 2-3 ft.  | B.  | 6-10 |
| v. 2. <i>arvalis</i> . . . . .        | . . . .                          | . . . .    | . . | . .      | . . | . .  |
| <b>Gen. IV. Leontodon, L.</b>         | <i>Hawkbit.</i>                  |            |     |          |     |      |
| i. <i>L. hirtus, L.</i> . . . .       | <i>hairy H.</i> . . . .          | Moors .    | Y.  | 4-8 in.  | P.  | 7-8  |
| ii. <i>L. hispidus, L.</i> . . . .    | <i>rough H.</i> . . . .          | Past. . .  | Y.  | 6-18 in. | P.  | 6-9  |
| iii. <i>L. autumnalis, L.</i> . .     | <i>Autumnal H.</i> . .           | Past. . .  | Y.  | 6-18 in. | P.  | 8-9  |
| v. 2. <i>pratensis, Koch.</i> . .     | . . . .                          | Mount. .   | . . | . .      | . . | . .  |
| <b>Gen. V. Hypochaeris, L.</b>        | <i>Cat's-ear.</i>                |            |     |          |     |      |
| i. <i>H. glabra, L.</i> . . . .       | <i>smooth C.</i> . . . .         | Dry. pl. . | Y.  | 6-12 in. | A.  | 6-8  |
| v. 2. <i>Balbisii, Lois.</i> . . . .  | . . . .                          | . . . .    | . . | . .      | . . | . .  |
| ii. <i>H. maculata, L.</i> . . . .    | <i>spotted C.</i> . . . .        | Ch. past.! | Y.  | 6-12 in. | P.  | 7-8  |
| iii. <i>H. radicata, L.</i> . . . .   | <i>long-rooted C.</i> . .        | Waysides   | Y.  | 6-18 in. | P.  | 7-8  |
| <b>Gen. VI. Lactuca, L.</b>           | <i>Lettuce.</i>                  |            |     |          |     |      |
| i. <i>L. virosa, L.</i> . . . .       | <i>strong-scented L.</i>         | Was. pl..  | Y.  | 3-5 ft.  | B.  | 7-8  |
| ii. <i>L. scariola, L.</i> . . . .    | <i>prickly L.</i> . . . .        | Was. pl.!  | Y.  | 3-5 ft.  | B.  | 7-8  |

## ORD. XLV.—DIPSACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. Ls. simp., opp., sess.
- ii. Ls. stalked, with a basal pair of lfts.—Heads small, hairy.

## Gen. II.

- i. Ls. ent.—Cor. four cleft.
- ii. Ls. pinnfid.—Cor. five cleft.

## Gen. III.

- i. Lower ls. sinn.; upper pinnfid.

## ORD. XLVI.—COMPOSITÆ.

## Gen. I.

- i. Ls. glab., acum., channelled—Pedunc. slightly thickened—Invol. equalling the florets—Fls. yellow.
- v. 2. *Invol. longer than the florets.*
- v. 3. *Invol. half as long as florets.*
- ii. Ls. as Sp. 1—Pedunc. much thickened above—Fls. purple.
- v. 2. *Florets half as long as the bracts.*

## Gen. II.

- i. St. stout, hispid, with rigid, hooked bristles from tubercular bases—Lower ls. aur. upper cord., amplex.

## Gen. III.

- i. St. rough with hooked bristles—Ls. lanc. toothed—Fls. corymb.
- v. 2. *Branches erect—Fls. umbellate.*

## Gen. IV.

- i. Ls. lanc., hisp.—Scapes one-flowered—Invol. glab.
- ii. Ls. runc., hisp.—Scapes one-flowered—Invol. hairy.
- iii. Ls. lanc., toothed, glab.—Scapes branched—Invol. glab.
- v. 2. *Invol. shaggy, with black hairs.*

## Gen. V.

- i. St. branched, glab.—Ls. obl., dent., sinu.—Invol. as long as florets—Inner fruits beaked.
- v. 2. *All the fruits beaked.*
- ii. St. sol., glab.—Ls. spath., toothed, spotted, scab.
- iii. St. branched, glab.—Ls. runc., obt.—Invol. shorter than the florets.

## Gen. VI.

- i. Scab.—Ls. spreading, ob.-ov., toothed—Beak equalling the black fr.
- ii. Scab.—Ls. erect, lanc., sinu., sagitt.—Beak equalling the grey fr.

ORD. XLVI.—COMPOSITÆ—*cont.*

| Botanical Name.  | Common Name.                | Soil<br>or<br>Situation.       | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|-----------------------------|--------------------------------|---------|-----------|----------------|-----------------------|
| iii. <i>L. saligna</i> , <i>L.</i> . . . .                   | <i>least L.</i> . . . .     | Ch. pas.!                      | Y.      | 12-18 in. | B.             | 7-8                   |
| iv. <i>L. muralis</i> , <i>L.</i> . . . .                    | <i>Ivy-leaved L.</i> . .    | near sea.<br>Walls &<br>woods. | Y.      | 1-3 ft.   | A.             | 6-8                   |
| <b>Gen. VII. <i>Souchus</i>, <i>L.</i></b>                   | <i>Sow-thistle.</i>         |                                |         |           |                |                       |
| i. <i>S. palustris</i> , <i>L.</i> . . . .                   | <i>Marsh S.</i> . . . .     | Mar.!                          | Y.      | 5-7 ft.   | P.             | 7-8                   |
| ii. <i>S. arvensis</i> , <i>L.</i> . . . .                   | <i>corn S.</i> . . . .      | Corn fie..                     | Y.      | 3-4 ft.   | P.             | 8-9                   |
| iii. <i>S. asper</i> , <i>Hoffm.</i> . . . .                 | <i>common S.</i> . . . .    | Was. pl..                      | Y.      | 2-3 ft.   | A.             | 6-8                   |
| iv. <i>S. oleraceus</i> , <i>L.</i> . . . .                  | <i>sharp-fringed S.</i> . . | Was. pl..                      | Y.      | 2-3 ft.   | A.             | 6-8                   |
| <b>Gen. VIII. <i>Mulgedium</i>,<br/><i>Cass.</i></b>         | <i>Blue Sow-thistle.</i>    |                                |         |           |                |                       |
| i. <i>M. alpinum</i> , <i>Less.</i> . . .                    | <i>Alpine B.</i> . . . .    | Alp. rocs.!                    | B.      | 3-4 ft.   | P.             | 7-8                   |
| <b>Gen. IX. <i>Crepis</i>, <i>L.</i></b>                     | <i>Hawk's-beard.</i>        |                                |         |           |                |                       |
| i. <i>C. virens</i> , <i>L.</i> . . . .                      | <i>smooth H.</i> . . . .    | Was. pl..                      | Y.      | 1-3 ft.   | P.             | 7-8                   |
| ii. <i>C. biennis</i> , <i>L.</i> . . . .                    | <i>rough H.</i> . . . .     | Ch. pas. .                     | Y.      | 1-4 ft.   | B.             | 6-7                   |
| iii. <i>C. succisifolia</i> , <i>Tausch.</i>                 | <i>Succory-leaved H.</i>    | Woods,<br>N. of E.             | Y.      | 1-2 ft.   | P.             | 7-8                   |
| iv. <i>C. paludosa</i> , <i>Mærch.</i> .                     | <i>Marsh H.</i> . . . .     | Moi. wds.                      | Y.      | 1-3 ft.   | P.             | 7-9                   |
| <b>Gen. X. <i>Hieracium</i>, <i>L.</i></b>                   | <i>Hawkweed.</i>            |                                |         |           |                |                       |
| i. <i>H. Pilosella</i> , <i>L.</i> . . . .                   | <i>Mouse-ear H.</i> . . .   | Dry banks                      | Y.      | 2-10 in.  | P.             | 5-8                   |
| v. 2. <i>pilosissimum</i> . . . .                            | .. ..                       | .. ..                          | Y.      | .. ..     | .. ..          | .. ..                 |
| iii. <i>H. aurantiacum</i> , <i>L.</i> . .                   | <i>Orange H.</i> . . . .    | Copses<br>N. of E.             | O.      | 1-2 ft.   | P.             | 6-8                   |
| A.   |                             |                                |         |           |                |                       |
| iii. <i>H. alpinum</i> , <i>L.</i> . . . .                   | <i>Alpine H.</i> . . . .    | Sc. mount.                     | Y.      | 4-12 in.  | P.             | 7-8                   |
| iv. <i>H. holosericeum</i> , <i>Back.</i>                    | .. ..                       | Cumb. .                        | ..      | ..        | ..             | ..                    |
| v. <i>H. eximium</i> , <i>Back.</i> . .                      | .. ..                       | Sc. mount.                     | ..      | 6-15 in.  | ..             | ..                    |
| v. 2. <i>tenellum</i> . . . .                                | .. ..                       | .. ..                          | ..      | ..        | ..             | ..                    |
| vi. <i>H. calenduliflorum</i> ,<br><i>Back.</i><br><i>B.</i> | .. ..                       | Sc. mount.                     | ..      | ..        | ..             | ..                    |
| vii. <i>H. gracilentum</i> , <i>Back.</i>                    | .. ..                       | Sc. mount.                     | ..      | 6-10 in.  | ..             | ..                    |
| viii. <i>H. globosum</i> , <i>Back.</i> .                    | .. ..                       | .. ..                          | ..      | ..        | ..             | ..                    |



## CHARACTERISTICS OF SPECIES AND VARIETIES.

- iii. Glab.—Ls. lin., ent., acum., sagitt.—Beak twice as long as fr.
- iv. Glab.—Ls. lyr., pinnfid. ; term. lobe angled—Beak much shorter than fr.

## Gen. VII.

- i. Perenn.—Rootstock branched—Lower ls. runc., minutely toothed ; upper ls. ent., sagitt.
- ii. Perenn.—Rootstock creeping—Lower ls. runc., sharply toothed ; upper ls. ent., cord.
- iii. Ann.—Ls. ent. or pinnfid. ; auricles rounded—Fr. ribbed, not transversely wrinkled.
- iv. Ann.—Ls. ent. or pinnfid. ; auricles arrow-shaped—Fr. ribbed and transversely wrinkled.

## Gen. VIII.

- i. Ls. lyr., sagitt. ; term. lobe large, delt.—Fls. blue.

## Gen. IX.

- i. Glab.—Rad. ls. lyr. ; st. ls. lin., sagitt.—Inner bracts of invol. glab. within—Fr shorter than pappus.
- ii. Hisp.—Rad. ls. runc.-lyr. ; st. ls. lanc., sess.—Inner bracts of invol. downy within—Fr. longer than pappus.
- iii. Glab. or hairy—Rad. ls. spath. nearly glab. ; st. ls. obl. half-amplex.—Outer bracts of invol. short, adpressed.
- iv. Glab.—Rad. ls. obl.-lanc. ; st. ls. oval-lanc., amplex.—Invol. gland. hairy.

## Gen. X.

\* *Plants with running scions.*

- i. St. slender, leafless—Ls. ent. ellip.-lanc., downy—Fls. sol.
- v. 2. *Fls. larger—Plant with long silky hairs—Root scions short.*
- ii. St. leafy—Ls. ov.-lanc., hairy—Fls. corymb.]
- \* \* *Plants producing radical rosettes of ls. in autumn.*
- A. *St. generally one-headed—Invol. shaggy or silky ; bracts lax—Florets extremely hairy.*
- iii. St. hairy, one-headed—Rad. ls. ov., spath. almost glab. above ; st. ls. lin. lanc.—Invol. hemisph., hairy ; scales all lax—Styles yellow.
- iv. St. silky, one-headed—Rad. ls. blunt, hairy on both sides—Invol. turbinate, silky ; inner scales adpr.—Styles yellow.
- v. St. floccose, one or two-headed—Rad. ls. lanc., acute, sharply dent.—Invol. truncate, shaggy ; scales attenuate—Styles livid.
- v. 2. *St. short—Rad. ls. lin.-lanc.—Styles yellow.*
- vi. Like No. 5, but heads larger and generally solitary—Rad. ls. ovate, spath., obt.

B. *St. one or few-headed—Invol. villous or hairy ; bracts adpressed, or a few outer lax—Florets nearly glab., with a hairy tip.*

- vii. St. one or few-headed—Rad. ls. obl.-lanc. ; st. ls. large—Invol. ventricose, densely setose ; inner bracts broad—Styles livid.
- viii. St. one or few-headed—Rad. ls. ovate, shortly stalked ; st. ls. few, small—Invol. glob. hairy ; bracts lin., attenu.—Styles yellow.

ORD. XLVI.—COMPOSITÆ—*cont.*

| Botanical Name.  | Common Name. | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|--------------|--------------------------|---------|-----------|----------------|-----------------------|
| <b>ix.</b> <i>H. nigrescens</i> ,<br><i>Willd.</i>     | . . . .      | Sc. mount.               | Y.      | 6-12 in.  | P.             | 7-8                   |
| <b>x.</b> <i>H. lingulatum</i> , <i>Back.</i>          | . . . .      | Sc. mount.               | Y.      | 1-2 ft.   | P.             | 7-8                   |
| <b>xi.</b> <i>H. senescens</i> , <i>Back.</i>          | . . . .      | Sc. mount.               | Y.      | 15-18 in. | P.             | 7-8                   |
| <b>xii.</b> <i>H. chrysanthum</i> ,<br><i>Back.</i>    | . . . .      | Sc. mount.               | Y.      | 9-15 in.  | P.             | 7-8                   |
| <b>v. 2.</b> <i>microcephalum</i> .                    | . . . .      | Cumb. .                  | Y.      | . . .     | . . .          | . . .                 |
| <b>xiii.</b> <i>H. cerinthoides</i> , <i>L.</i>        | . . . .      | Sc. mount.               | Y.      | 12-18 in. | P.             | 7-8                   |
| <b>v. 2.</b> <i>anglicum</i> , <i>Fries.</i>           | . . . .      | Teesdale,<br>&c.         | . .     | . .       | . .            | . .                   |
| <b>v. 3.</b> <i>acutifolium</i> , <i>Back.</i>         | . . . .      | Sc. . . .                | . .     | . .       | . .            | . .                   |
| <b>xiv.</b> <i>H. iricum</i> , <i>Fries.</i> .         | . . . .      | Mount. .                 | Y.      | 1-3 ft.   | P.             | 7-8                   |
| <i>C.</i>  |              |                          |         |           |                |                       |
| *  |              |                          |         |           |                |                       |
| <b>xv.</b> <i>H. pallidum</i> , <i>Fr.</i> .           | . . . .      | Mount. .                 | Y.      | 6-18 in.  | P.             | 6-9                   |
| <b>xvi.</b> <i>H. lasiophyllum</i> ,<br><i>Koch.</i>   | . . . .      | Sc. mount.               | Y.      | . .       | . .            | . .                   |
| <b>xvii.</b> <i>H. Gibsoni</i> , <i>Back.</i> .        | . . . .      | Settle. .                | Y.      | 6-18 in.  | . .            | . .                   |
| <b>xviii.</b> <i>H. argenteum</i> , <i>Fr.</i>         | . . . .      | Mount. .                 | Y.      | 1-2 ft.   | P.             | 7-8                   |
| <b>xix.</b> <i>H. nitidum</i> , <i>Back.</i> .         | . . . .      | Sc. mount.               | Y.      | 1-2 ft.   | P.             | 6-7                   |
| <b>xx.</b> <i>H. aggregatum</i> ,<br><i>Back.</i>      | . . . .      | Mount. .                 | Y.      | 1-2 ft.   | P.             | 6-7                   |
| * *  |              |                          |         |           |                |                       |
| <b>xxi.</b> <i>H. murorum</i> , <i>L.</i> .            | . . . .      | Rocky pl.                | Y.      | 12-18 in. | P.             | 6-7                   |
| <b>xxii.</b> <i>H. cæsium</i> , <i>Fr.</i> . .         | . . . .      | Mount. .                 | Y.      | 12-18 in. | P.             | 6-7                   |
| <b>v. 2.</b> <i>obtusifolium</i> . . .                 | . . . .      | . . .                    | . .     | . .       | . .            | . .                   |
| <b>xxiii.</b> <i>H. stelligerum</i> ,<br><i>Froel.</i> | . . . .      | Sc. mount.               | Y.      | 1-2 ft.   | P.             | 6-7                   |
| <b>xxiv.</b> <i>H. vulgatum</i> , <i>Fr.</i> .         | . . . .      | Woods .                  | Y.      | 1-3 ft.   | P.             | 7-9                   |
| <b>v. 2.</b> <i>cinereum</i> . . . .                   | . . . .      | . . .                    | . .     | . .       | . .            | . .                   |
| <b>v. 3.</b> <i>rubescens</i> . . . .                  | . . . .      | . . .                    | . .     | . .       | . .            | . .                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- ix.** St. few headed—Rad. ls. ov.-lanc., irregularly and coarsely dent. with slender stalks; st. ls. few, shortly stalked—Invol. ov.; bracts broad, outer obt., erect in bud—Styles brown.
- x.** St. few headed—Rad. ls. obl. dentic., apic., coarsely hairy, with short stalks; st. ls. few, sess.—Invol. trunc. at base; bracts atten. acute, erect in bud—Sty. livid.
- xi.** St. few headed—Rad. ls. ellip.-lanc., remotely and evenly dent.; st. ls. lin.-lanc., with short slender stalks—Invol. turbinate; bracts attenuate, inflexed in bud.
- xii.** St. few headed—Rad. ls. ov., acu., coarsely dent. on long slend. stalks; st. ls. subu., stalked—Fls. large, drooping—Invol. rounded at base; bracts lin., attenu.; outer ones lax., inflexed in bud.
- v. 2. St. simple—Rad. ls. more evenly dent.—Fls. smaller, erect—Invol. narrower.*
- xiii.** Glaucous green—St. few-headed—Rad. ls. ov.-lanc., with long shaggy stalks; st. ls. few, ov., acu., amplex.—Florets pilose at tip—Invol. ventr.; bracts acum., erect in buds—Styles livid.
- v. 2. St. with one large sol. leaf, and long asc., lat., fl.-stalks—Bracts all adpr.*
- v. 3. Very glauc.—St. branched from base—Ls. very ac., sharply toothed, glab.—Invol. bracts adpr.*
- xiv.** Glaucous gr.—St. leafy, corymb.—Rad. ls. ov. with short stalks; st. ls. broadly ovate, amplex.—Florets with glab. tips—Invol. trunc.; bracts blunt—Styles livid.
- C. St. few headed—Invol. hairy, with adpressed bracts—Florets externally nearly hairless, with glab. tips.*
- \* Sty. yellow.*
- xv.** Very glauc.—St. glab.—Rad. ls. ovate lanc., coarsely ciliate, stalked; st. ls. (0-1) lanc., sess.—Invol. ov.; bracts acute.
- xvi.** Ash-coloured—St. brittle, pilose—Rad. ls. oval, coarsely pilose on both sides; st. ls. (rare) acute at each end—Invol. vent.; bracts cusp.
- xvii.** Glau.—St. rigid, leafless—Rad. ls. broadly ov., spotted—Pedunc. bifid, straight—Invol. trunc.; bracts broad, blunt.
- xviii.** Very glauc.—St. hollow, glab.—Rad. ls. lanc., almost ent.; st. ls. (1-3) lin.-lanc., sess.—Pedunc. long, rigid—Invol. broadly ventr., bracts blunt.
- xix.** Dark green—St. glab.—Rad. ls. lanc., acum., coarsely toothed; st. ls. (0-1)—Pedunc. spreading, rigid, scaly—Invol. scales acum.
- xx.** Dark green—St. sub-umbell., floccose—Rad. ls. broad, ov., glab.; st. ls. (1) lanc., sess.—Pedunc. erect, aggregate—Invol. narrow, conical, hairless; bracts blunt.
- \* \* Styles livid.*
- xxi.** Light green—St. corymb.—Rad. ls. thin, ov., dent.; st. ls. (0-1) stalked—Pedunc. arc. short—Invol. gr.; bracts ac., inner erect in bud.
- xxii.** Dull green—St. few headed, leafless—Rad. ls. coriaceous, ov.—Pedunc. straight—Invol. vent.; outer bracts blunt, inner ac. inflexed in bud.
- v. 2. Yellowish gr.—Rad. ls. soft, rounded at each end; st. l. (1)—Pedunc. spreading—Fls. pale.*
- xxiii.** Ashy green—St. leafy, few headed, corymb.—Rad. ls. ov., floccose on both sides, long stalked; st. ls. large, semi-amplex.—Pedunc. floccose—Invol. ov.; bracts acum., inflexed in bud.
- xxiv.** Purplish or glau.—St. leafy, branched, corymb.—Rad. ls. obl. or lanc. dent. at middle, narrowed to base; lower st. ls. stalked, upper sess.—Pedunc. straight, floccose—Invol. cylind. in bud; bracts equally attenu.
- v. 2. Ashy-green—St. short, much branched—Rad. ls. few, ob.-ov. lanc.*
- v. 3. St. stout, purplish—Rad. ls. many; st. ls. (1-2) semi-amplex.*
- (Several other varieties closely resembling each other occur of this p'ant.)*

## ORD. XLVI.—COMPOSITÆ—cont.

| Botanical Name.                                       | Common Name.              | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|---------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <i>D.</i>   |                           |                          |         |          |                |                       |
| xxv. <i>H. gothicum</i> , <i>Fr.</i> .                | . . . .                   | Heaths .                 | Y.      | 1-4 ft.  | P.             | 7-8                   |
| <i>v.</i> 2. <i>latifolium</i> . . . .<br>* * *       | . . . .                   | . . . .                  | . .     | . .      | . .            | . .                   |
| xxvi. <i>H. tridentatum</i> , <i>Fr.</i>              | . . . .                   | Banks. .                 | Y.      | 2-5 ft.  | P.             | 8-9                   |
| xxvii. <i>H. prenanthoides</i> ,<br><i>Vill.</i>      | . . . .                   | Riv. banks<br>N. of E.   | Y.      | 1-3 ft.  | P.             | 8-9                   |
| xxviii. <i>H. strictum</i> , <i>Fr.</i> . .           | . . . .                   | Mount. .                 | Y.      | 1-3 ft.  | P.             | 8-9                   |
| xxix. <i>H. umbellatum</i> , <i>L.</i> .              | . . . .                   | San. pl. .               | Y.      | 1-4 ft.  | P.             | 7-9                   |
| <i>v.</i> 2. <i>filifolium</i> . . . .                | . . . .                   | . . . .                  | . .     | . .      | . .            | . .                   |
| xxx. <i>H. crocatum</i> , <i>Fr.</i> .                | . . . .                   | Mount. .                 | Y.      | 1-3 ft.  | P.             | 7-9                   |
| xxxi. <i>H. rigidum</i> , <i>Fr.</i> . .              | . . . .                   | Mount. .                 | Y.      | 3-4 ft.  | P.             | 7-9                   |
| xxxii. <i>H. corymbosum</i> , <i>Fr.</i>              | . . . .                   | Sc. mount.               | Y.      | 3-4 ft.  | P.             | 7-9                   |
| xxxiii. <i>H. boreale</i> , <i>Fr.</i> . .            | . . . .                   | Banks .                  | Y.      | 2-4 ft.  | P.             | 7-9                   |
| <b>Gen. XI. <i>Barkhausia</i>,</b><br><i>Manch.</i>   | <i>Barkhausia.</i>        |                          |         |          |                |                       |
| i. <i>B. foetida</i> , <i>DC.</i> . . .               | <i>stinking B.</i> . . .  | Ch. downs                | Y.      | 1-2 ft.  | B.             | 6-7                   |
| ii. <i>B. taraxifolia</i> , <i>DC.</i> . .            | <i>small rough B.</i> . . | Ch. pas. .               | Y.      | 1-2 ft.  | P.             | 6-7                   |
| [iii. <i>B. setosa</i> , <i>DC.</i> . . . .           | . . . .                   | Clo. fie. .              | Y.      | 1-3 ft.  | B.             | 7-8                   |
| <b>Gen. XII. <i>Taraxacum</i>,</b><br><i>Fuss.</i>    | <i>Dandelion.</i>         |                          |         |          |                |                       |
| i. <i>T. officinale</i> , <i>Wigg.</i> .              | <i>common D.</i> . . .    | Mead. . .                | Y.      | 6-12 in. | P.             | 3-10                  |
| <i>v.</i> 1. <i>Dens-leonis</i> , <i>Desf.</i> .      | . . . .                   | . . . .                  | . .     | . .      | . .            | . .                   |
| <i>v.</i> 2. <i>erythrospermum</i> ,<br><i>Andrz.</i> | . . . .                   | Dry pl. .                | . .     | . .      | . .            | . .                   |
| <i>v.</i> 3. <i>laevigatum</i> , <i>DC.</i> . .       | . . . .                   | San. pl. .               | . .     | . .      | . .            | . .                   |
| <i>v.</i> 4. <i>palustre</i> . . . . .                | . . . .                   | . . . .                  | . .     | . .      | . .            | . .                   |
| <b>Gen. XIII. <i>Arnoseris</i>,</b><br><i>Gaertn.</i> | <i>Nipplewort.</i>        |                          |         |          |                |                       |
| i. <i>A. pusilla</i> , <i>Gaertn.</i> . .             | <i>Dwarf N.</i> . . .     | Corn fie.!               | Y.      | 4-12 in. | A.             | 6-7                   |
| <b>Gen. XIV. <i>Lapsana</i>, <i>L.</i></b>            | <i>Nipplewort.</i>        |                          |         |          |                |                       |
| i. <i>L. communis</i> , <i>L.</i> . . .               | <i>common N.</i> . . .    | Was. pl..                | Y.      | 1-2 ft.  | A.             | 7-9                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

*D. Invol. almost glab.—Root ls. generally withering before the plant flowers.*

- xxv.** Dark green—St. rigid, leafy, few headed—Rad. ls. ov., lanc.; st. ls. sess., lower ones aggreg.—Invol. ventri.; bracts broad, imbric.—Sty. yellow, with livid hairs.
- v. 2.** *St. branched above—Ls. broadly lanc, rad. ones generally persistent.*  
 \* \* \* *No radical ls.—Plants forming in autumn buds which the next season become leafy stems—Invol. bracts in many rows.*
- xxvi.** St. sometimes forming a small rosette—Ls. lanc., dent. in middle; st. ls. (10–20) gradually diminishing to bracts, three-nerved—Invol. trunc., constricted in fr.—Sty. livid.
- xxvii.** Ls. all amplex., loosely veined, hairy on both sides—Heads small, in a spreading panic.; pedunc. short, densely flocc.—Invol. very setose; outer bracts few, obt., short; inner equal, blunt.
- xxviii.** Ls. obl.-lanc., sess., glauc. beneath; upper sess.—Heads irreg. corymb.; pedunc. scarcely setose—Invol. ellip., setose; bracts irreg. imbric.—Sty. with dark hairs.
- xxix.** Ls. lin.-lanc., sess., narrowed below—Heads sub-umbell.—Invol. broadly ovate; bracts reflexed at point.
- v. 2.** *Ls. very narrow, revolute at margin.*
- xxx.** St. densely leafy—Ls. lin.-lanc., sess., truncate at base—Pedunc. not scaly, with few heads—Invol. sub-cylind.; bracts blunt, adpr.
- xxxi.** St. rigid—Ls. obl.-lanc., sess., rounded at base, glab.—Heads in a branched, leafy, corymb.; pedunc. not scaly—Invol. ovate; bracts obt., adpr.
- xxxii.** St. densely leafy—Ls. ov.-lanc., irreg. toothed, sess., loosely veined, glauc. beneath—Heads in a branched spreading panic.; pedunc. scaly.
- xxxiii.** Ls. ovate; upper broad, scarcely clasping; lower sub-peti.—Heads in a corymb.; pedunc. scaly—Invol. blackish gr.—Sty. dark livid.

## Gen. XI.

- i. St. round—Buds nodding—Central fruits long beaked.
- ii. St. ang., furrowed—Buds erect—Fruits all equally beaked.
- iii. St. ang., furrowed—Outer scales of invol. lin., spreading.]

## Gen. XII.

- i. Ls. toothed, sinu. or pinnfid.
- v. 1.** *Ls. bright green—Outer invol. bracts lin., recurved.*
- v. 2.** *Ls. dull green—Outer invol. bracts patent or recurved.*
- v. 3.** *Ls. dull green—Outer invol. bracts ovate, erect.*
- v. 4.** *Ls. almost ent.—Outer invol. bracts ovate, acum. spreading or adpr.*

## Gen. XIII.

- i. St. leafless, fistulous upwards—Ls. ob.-ov., obt., toothed.

## Gen. XIV.

- i. St. branched, paniced—Ls. lyr.-pinnfid.; upper ls. ent.

## ORD. XLVI.—COMPOSITÆ—cont.

| Botanical Name.                           | Common Name.               | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|----------------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| <b>Gen. XV. Cichorium, L.</b>             | <i>Chicory or Succory.</i> |                          |           |           |                |                       |
| i. <i>C. Intybus, L.</i> . . . .          | <i>common S.</i> . . . .   | Waysides                 | B.        | 1-3 ft.   | P.             | 7-10                  |
| <b>Gen. XVI. Arctium, L.</b>              | <i>Burdock.</i>            |                          |           |           |                |                       |
| i. <i>A. lappa, L.</i> . . . . .          | <i>common B.</i> . . . .   | Was. pl. .               | Pu.       | 2-6 ft.   | B.             | 7-8                   |
| a. <i>majus, Schk.</i> . . . . .          | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. <i>minus, Schk.</i> . . . . .          | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| c. <i>intermedium, Lan.</i> . . . .       | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| d. <i>nemorosum, Lej.</i> . . . .         | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <b>Gen. XVII. Saussurea, DC.</b>          | <i>Saussurea.</i>          |                          |           |           |                |                       |
| i. <i>S. alpina, DC.</i> . . . . .        | <i>Alpine S.</i> . . . . . | Alp. rocs.!              | Pu.       | 8-12 in.  | P.             | 8-9                   |
| <b>Gen. XVIII. Serratula, L.</b>          | <i>Saw-wort</i>            |                          |           |           |                |                       |
| i. <i>S. tinctoria, L.</i> . . . . .      | <i>common S.</i> . . . .   | Thick. .                 | Pu.       | 2-3 ft.   | P.             | 8-9                   |
| v. 2. <i>monticola, Bor.</i> . . . .      | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <b>Gen. XIX. Carduus, L.</b>              | <i>Thistle.</i>            |                          |           |           |                |                       |
| * . . . . .                               |                            |                          |           |           |                |                       |
| i. <i>C. nutans, L.</i> . . . . .         | <i>Musk T.</i> . . . . .   | Downs .                  | Pu.       | 1-2 ft.   | B.             | 5-10                  |
| ii. <i>C. crispus, L.</i> . . . . .       | <i>welted T.</i> . . . . . | Was. pl. .               | Pu.       | 1-3 ft.   | B.             | 6-8                   |
| a. <i>genuinus, Gr.</i> . . . . .         | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. <i>polyanthemus, Godr.</i> . . . .     | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| c. <i>litigiosus, Gr.</i> . . . . .       | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| iii. <i>C. tenuiflorus, Curt.</i> . . . . | <i>slender flowered T.</i> | San. pl. .               | ♂Pu.      | 1-3 ft.   | B.             | 6-8                   |
| iv. <i>C. Marianus, L.</i> . . . . .      | <i>Milk T.</i> . . . . .   | Was. pl. .               | Pu.       | 1-5 ft.   | B.             | 7-8                   |
| * * . . . . .                             |                            |                          |           |           |                |                       |
| v. <i>C. lanceolatus, L.</i> . . . . .    | <i>Spear T.</i> . . . . .  | Was. pl. .               | Pu.       | 1-5 ft.   | B.             | 7-8                   |
| vi. <i>C. eriophorus, L.</i> . . . . .    | <i>woolly-headed T.</i>    | Ch. fie. .               | ♂Pu.      | 3-5 ft.   | B.             | 7-8                   |
| vii. <i>C. palustris, L.</i> . . . . .    | <i>Marsh T.</i> . . . . .  | Mar. . .                 | Pu.       | 2-4 ft.   | B.             | 7-8                   |
| viii. <i>C. arvensis, Curt.</i> . . . .   | <i>creeping T.</i> . . . . | Waysides                 | Pu.       | 2-4 ft.   | P.             | 7-8                   |
| v. 2. <i>setosus.</i> . . . . .           | . . . . .                  |                          |           |           |                |                       |
| ix. <i>C. pratensis, Huds.</i> . . . .    | <i>Meadow T.</i> . . . .   | Wet pas.                 | Pu.       | 12-18 in. | P.             | 6-8                   |
| x. <i>C. tuberosus, L.</i> . . . . .      | <i>tuberous T.</i> . . . . | Mead.!                   | Pu.       | 12-18 in. | P.             | 6-8                   |
| xi. <i>C. acaulis, L.</i> . . . . .       | <i>dwarf T.</i> . . . . .  | Downs .                  | Pu.       | 1-12 in.  | P.             | 7-9                   |
| xii. <i>C. heterophyllus, L.</i> . . . .  | <i>melancholy T.</i> . . . | Moi. pas.                | P.        | 2-3 ft.   | P.             | 7-8                   |
| <b>Gen. XX. Onopordium, L.</b>            | <i>Cotton Thistle.</i>     |                          |           |           |                |                       |
| i. <i>O. acanthium, L.</i> . . . . .      | <i>common C.</i> . . . .   | Was. pl. .               | ♂ Pu.     | 2-5 ft.   | B.             | 7-9                   |

ORD. XLVI.—COMPOSITÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. XV.**

- i. St. strong, erect, viscid—Lower ls. runc. ; upper lanc., amplex.—Heads axill., in pairs.

**Gen. XVI.**

- i. Ls. large, cord., stalked—Inner invol. bracts with hooked points.  
 a. Heads long stalked, glob., glab.  
 b. Heads shortly stalked, glob., greenish, slightly webbed.  
 c. Heads sub-sess., ovate, purplish, cottony.  
 d. Heads sess., glob., very cottony.

**Gen. XVII.**

- i. Ls. obl.-lanc., toothed, cottony below—Heads in a dense corymb.

**Gen. XVIII.**

- i. Ls. lyr.-pinnfid., finely serr.—Heads. obl., corymb.  
 v. 2. *Heads nearly sess.*

**Gen. XIX.**

\* *Pappus rough.*

- i. Heads large, sol., drooping—Invol. bracts lanc., cottony, outer spreading, reflexed.  
 ii. Heads small, round, clustered—Invol. bracts lin., erect or asc.  
 a. Ls. hoary beneath—Invol. sub-glob.  
 b. Ls. pubescent on nerves only—Invol. ovoid.  
 c. Heads sub-sol.—Ls. as Var. 2—Invol. glob.  
 iii. Heads cylind., clustered—Invol. bracts, ov.-lanc. attenuate.  
 iv. Heads very large glob., sol.—Invol. bracts leafy, recurved—Ls. veined with white.  
 \* \* *Pappus feathery.*  
 v. St. winged—Ls. pinnfid.—Invol. ovate, cottony ; invol. bracts lanc., spreading.  
 vi. St. not winged—Ls. pinnfid. ; lobes bifid.—Heads very large, cottony ; invol. bracts lanc., with a long spinous point.  
 vii. St. winged—Ls. pinnfid.—Heads close clustered ; invol. bracts, ov.-lanc., adpressed.  
 viii. St. not winged ; rootstock creeping—Ls. pinnfid. invol. ov., glab. ; scales broad, lanc. adpr., with a spreading spine.  
 v. 2. *Ls. lanc. ent. or slightly pinnfid.*  
 ix. St. nearly leafless, one-flowered ; rootstock fibrous—Ls. lanc., wavy, ciliate—Invol. glob., cottony ; bracts adpressed.  
 x. St. as last ; but rootstock of tuberous fibres—Ls. deeply pinnfid., ciliate—Invol. ovate ; bracts adpr., glab.  
 xi. St. o. or short ; one-flowered—Ls. pinnfid., glab.—Invol. ovoid, glab. ; bracts acute, adpr.  
 xii. St. branched, cottony—Ls. large, lanc., serr. white beneath—Heads large, sol. ; invol. bracts acuminate.

(*Various hybrids occur between several species of this genus.*)

**Gen. XX.**

- i. St. erect, branched, with spinous wings—Ls. ov.-obl., pinnfid., woolly on both sides.

ORD. XLVI.—COMPOSITÆ—*cont.*

| Botanical Name.                             | Common Name.                                 | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. XXI. <i>Carlina</i>, L.</b>         | <i>Carlina Thistle.</i>                      |                          |         |           |                |                       |
| i. <i>C. vulgaris</i> , L. . . .            | <i>common C.</i> . . . .                     | Downs .                  | pu      | 6-18 in.  | B.             | 6-10                  |
| <b>Gen. XXII. <i>Centaurea</i>, L.</b>      | <i>Knap-weed, Blue-bottle, Star-thistle.</i> |                          | Br.     |           |                |                       |
| i. <i>C. nigra</i> , L. . . . .             | <i>black K.</i> . . . .                      | Mead. .                  | Pu.     | ½-3 ft.   | P.             | 6-9                   |
| a. <i>vulgaris</i> . . . . .                | . . . . .                                    | . . . .                  | . .     | . .       | . .            | . .                   |
| b. <i>decipiens</i> , Thuil. . .            | . . . . .                                    | . . . .                  | . .     | . .       | . .            | . .                   |
| ii. <i>C. Cyanus</i> , L. . . . .           | <i>Corn B.</i> . . . . .                     | Fie. . .                 | B.      | 1-2 ft.   | A.             | 6-8                   |
| iii. <i>C. Scabiosa</i> , L. . . .          | <i>great K.</i> . . . .                      | Fie. . .                 | Pu.     | 2-3 ft.   | P.             | 7-9                   |
| * *   |  |                          |         |           |                |                       |
| iv. <i>C. aspera</i> , L. . . . .           | <i>Jersey S.</i> . . . .                     | Jersey! .                | y Br.   | 1-2 ft.   | P.             | 7-9                   |
| v. <i>C. Calcitrapa</i> , L. . .            | <i>common S.</i> . . . .                     | Was. pl. .               | ro Pu.  | 1-2 ft.   | A.             | 7-8                   |
| [vi. <i>C. solstitialis</i> , L. . .        | . . . . .                                    | Fields!<br>S. of E.      | Y.      | 1-2 ft.   | A.             | 7-9                   |
| <b>Gen. XXIII. <i>Bidens</i>, L.</b>        | <i>Bur-marigold.</i>                         |                          |         |           |                |                       |
| i. <i>B. cernua</i> , L. . . . .            | <i>nodding B.</i> . . . .                    | Wet pl. .                | g Y.    | 1-2 ft.   | A.             | 7-10                  |
| v. 2. <i>radiata</i> . . . . .              | . . . . .                                    | . . . .                  | . .     | . .       | . .            | . .                   |
| ii. <i>B. tripartita</i> , L. . . .         | <i>trifid B.</i> . . . .                     | Wet pl. .                | g Y.    | 1-2 ft.   | A.             | 7-10                  |
| <b>Gen. XXIV. <i>Eupatorium</i>, L.</b>     | <i>Hemp Agrimony.</i>                        |                          |         |           |                |                       |
| i. <i>E. cannabinum</i> , L. . .            | <i>common H.</i> . . . .                     | Riv. bks.                | p Pu.   | 2-4 ft.   | P.             | 7-9                   |
| <b>Gen. XXV. <i>Chrysocoma</i>, L.</b>      | <i>Goldilocks.</i>                           |                          |         |           |                |                       |
| i. <i>C. Linosyris</i> , L. . . .           | <i>flax-leaved G.</i> . .                    | Li. rocks!               | Y.      | 6-18 in.  | P.             | 8-9                   |
| <b>Gen. XXVI. <i>Diotis</i>, Desf.</b>      | <i>Cotton weed.</i>                          |                          |         |           |                |                       |
| i. <i>D. maritima</i> , Coss. . .           | <i>Seaside C.</i> . . . .                    | San. sh.!                | Y.      | 6-12 in.  | P.             | 8-9                   |
| <b>Gen. XXVII. <i>Tanacetum</i>, L.</b>     | <i>Tansy.</i>                                |                          |         |           |                |                       |
| i. <i>T. vulgare</i> , L. . . . .           | <i>common T.</i> . . . .                     | Was. pl. .               | Y.      | 2-3 ft.   | P.             | 8-9                   |
| <b>Gen. XXVIII. <i>Artemisia</i>, L.</b>    | <i>Worm-wood, Mugwort.</i>                   |                          |         |           |                |                       |
| i. <i>A. campestris</i> , L. . .            | <i>Field W.</i> . . . . .                    | San. hths.!              | Y.      | 2-3 ft.   | P.             | 8-9                   |
| ii. <i>A. maritima</i> , L. . . .           | <i>Sea W.</i> . . . . .                      | E. of E.<br>Sea sh. .    | r W.    | 10-18 in. | P.             | 8-9                   |
| v. 2. <i>gallica</i> , Willd. . . .         | . . . . .                                    | . . . .                  | . .     | . .       | . .            | . .                   |
| iii. <i>A. Absinthium</i> , L. . .          | <i>common W.</i> . . . .                     | Was. pl. .               | Y.      | 1-2 ft.   | P.             | 8-9                   |
| iv. <i>A. vulgaris</i> , L. . . .           | <i>Mugwort</i> . . . . .                     | Was. pl. .               | br Y.   | 3-4 ft.   | P.             | 7-9                   |
| <b>Gen. XXIX. <i>Antennaria</i>, Gaert.</b> | <i>Everlasting.</i>                          |                          |         |           |                |                       |
| i. <i>A. dioicum</i> , L. . . . .           | <i>Mountain E., or Cat's-foot.</i>           | Mount.<br>hths.          | pk W.   | 3-8 in.   | P.             | 6-;                   |



ORD. XLVI.—COMPOSITÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XXI.

- i. St. erect, branched—Outer invol. bracts pinnfid. ; inner lin., white.

## Gen. XXII.

\* *Invol. not spinous.*

- i. Ls. lanc., ent. ; lower lyr.—Invol. bracts ovate, pectinate.  
 a. Pedunc. stout—Bracts with dark brown appendages.  
 b. Pedunc. slender—Bracts with pale appendages.  
 ii. Ls. lin.-lanc., ent. ; lower ones toothed—Invol. bracts with pectinate margins.  
 iii. Ls. pinnfid. ; seg. lanc.—Invol. bracts with ciliate, downy margins.  
 \* \* *Invol. spinous.*  
 iv. Heads term., sol.—Ls. lin.—Invol. spines equal.  
 v. Heads lat., sess.—Ls. deeply pinnfid.—Central invol. spine long, channelled.  
 vi. Heads term., sol.—Ls. lin.-lanc., hoary ; rad. ls. lyr.—Central invol. spine long, slender.]

## Gen. XXIII.

- i. Ls. lanc., ent., sess.—Heads drooping.  
 v. 2. *Heads rayed.*  
 ii. Ls. three-cleft, stalked—Heads sub-erect.

## Gen. XXIV.

- i. Ls. opp. 3-5 part ; lfts. lanc., serr.

## Gen. XXV.

- i. St. simp., leafy—Ls. lin., ent., glab.—Heads corymb.

## Gen. XXVI.

- i. Densely toment.—Ls. sess., obt.—Heads corymb.

## Gen. XXVII.

- i. Ls. bipinnfid. ; seg. inciso.-serr.—Fls. in a term. corymb.

## Gen. XXVIII.

- i. St. twiggy—Ls. bipinn. ; seg. lin., silky beneath—Heads glab., drooping, outer-flowers fertile.  
 ii. Ls. woolly, pinnfid. ; seg. lin., obt.—Heads drooping—Fls. few, all perfect.  
 v. 2. *Heads dense, erect.*  
 iii. Ls. silky, pinnfid. ; seg. lanc., obt.—Heads drooping, silky ; outer flowers fert.  
 iv. Ls. woolly, pinnfid. ; seg. lanc., acute, serr.—Heads erect, woolly ; fls. all perfect.

## Gen. XXIX.

- i. St. herb., procumb.—Ls. spath., glab. above, cottony below.

ORD. XLVI.—COMPOSITÆ—*cont.*

| Botanical Name.   | Common Name.                             | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|---------|----------|----------------|-----------------------|
| v. 2. <i>hyperboreum</i> . . . . .<br>[iii. <i>A. margaritaceum</i> , <i>L.</i> | <i>pearly E.</i> . . . .                 | Moi. mead.<br>W. of E.!  | br W.   | 2-3 ft.  | P.             | 8-9                   |
| <b>Gen. XXX. Gnaphalium,</b><br><i>L.</i>                                       | <i>Cudweed.</i>                          |                          |         |          |                |                       |
| i. <i>G. luteo-album</i> , <i>L.</i> . . . .                                    | <i>Jersey C.</i> . . . .                 | San. fie.!               | p Y.    | 6-12 in. | A.             | 7-8                   |
| ii. <i>G. sylvaticum</i> , <i>L.</i> . . . .                                    | <i>Highland C.</i> . . . .               | Copses .                 | Br.     | 2-12 in. | P.             | 7-9                   |
| v. 2. <i>norvegicum</i> , <i>Gunn.</i> . . . .                                  | . . . . .                                | Sc. mount.               | . . . . | . . . .  | . . . .        | . . . .               |
| iii. <i>G. supinum</i> , <i>L.</i> . . . .                                      | <i>dwarf C.</i> . . . .                  | Alp. rocks               | Br.     | 1-3 in.  | P.             | 7-8                   |
| iv. <i>G. uliginosum</i> , <i>L.</i> . . . .                                    | <i>marsh C.</i> . . . .                  | Wet pl. .                | p Br.   | 2-6 in.  | A.             | 7-9                   |
| v. 2. <i>pilulare</i> , <i>Wahl.</i> . . . .                                    | . . . . .                                | . . . . .                | . . . . | . . . .  | . . . .        | . . . .               |
| <b>Gen. XXXI. Filago, L.</b>  | <i>Filago.</i>                           |                          |         |          |                |                       |
| [i. <i>F. gallica</i> , <i>L.</i> . . . .                                       | <i>narrow-leaved F.</i>                  | San. fie.!               | Y.      | 3-6 in.  | A.             | 7-9                   |
| ii. <i>F. minima</i> , <i>Fries.</i> . . . .                                    | <i>least F.</i> . . . .                  | Dry pl. .                | Y.      | 4-6 in.  | A.             | 6-9                   |
| iii. <i>F. germanica</i> , <i>L.</i> . . . .                                    | <i>common F.</i> . . . .                 | San. pl. .               | r Br.   | 6-18 in. | A.             | 7-9                   |
| a. <i>canescens</i> , <i>Ford.</i> . . . .                                      | . . . . .                                | . . . . .                | . . . . | . . . .  | . . . .        | . . . .               |
| b. <i>apiculata</i> , <i>C. E. Sm.</i> . . . .                                  | . . . . .                                | . . . . .                | . . . . | . . . .  | . . . .        | . . . .               |
| c. <i>spathulata</i> , <i>Presl.</i> . . . .                                    | . . . . .                                | . . . . .                | . . . . | . . . .  | . . . .        | . . . .               |
| <b>Gen. XXXII. Petasites.</b><br><i>Gaert.</i>                                  | <i>Butter-bur.</i>                       |                          |         |          |                |                       |
| i. <i>P. vulgaris</i> , <i>Desf.</i> . . . .                                    | <i>common B.</i> . . . .                 | Wet fie. .               | Pk.     | 4-12 in. | P.             | 3-5                   |
| <b>Gen. XXXIII. Tussilago,</b><br><i>L.</i>                                     | <i>Colt's-foot.</i>                      |                          |         |          |                |                       |
| i. <i>T. Farfara</i> , <i>L.</i> . . . .  | <i>common C.</i> . . . .                 | Moi. pl. .               | Y.      | 4-10 in. | P.             | 3-5                   |
| <b>Gen. XXXIV. Erigeron,</b><br><i>L.</i>                                       | <i>Flea-bane.</i>                        |                          |         |          |                |                       |
| i. <i>E. alpinus</i> , <i>L.</i> . . . .  | <i>Alpine F.</i> . . . .                 | Alp. rocks               | Pu.     | 6-8 in.  | P.             | 7-8                   |
| ii. <i>E. acris</i> , <i>L.</i> . . . .   | <i>blue F.</i> . . . .                   | Dry past.                | Pu.     | 1-1½ in. | B.             | 7-8                   |
| [iii. <i>E. canadensis</i> , <i>L.</i> . . . .                                  | <i>Canada F.</i> . . . .                 | Was. pl..                | p Y.    | 1-2 ft.  | A.             | 8-9                   |
| <b>Gen. XXXV. Aster, L.</b>   | <i>Star-wort, Mi-<br/>chaemas Daisy.</i> |                          |         |          |                |                       |
| i. <i>A. Tripolium</i> , <i>L.</i> . . . .                                      | <i>Sea S. or M.</i> . . . .              | Salt mar.                | Pu.     | 2-3 ft.  | P.             | 8-9                   |
| v. 2. <i>discoidens</i> . . . . .   | . . . . .                                | . . . . .                | . . . . | . . . .  | . . . .        | . . . .               |
| <b>Gen. XXXVI. Solidago,</b><br><i>L.</i>                                       | <i>Golden-rod.</i>                       |                          |         |          |                |                       |
| i. <i>S. Virga-aurea</i> , <i>L.</i> . . . .                                    | <i>common G.</i> . . . .                 | Thick. .                 | Y.      | 6-24 in. | P.             | 7-9                   |
| v. 2. <i>angustifolia</i> , <i>Gaud.</i> . . . .                                | . . . . .                                | . . . . .                | . . . . | . . . .  | . . . .        | . . . .               |
| v. 3. <i>canadensis</i> , <i>Huds.</i> . . . .                                  | . . . . .                                | Mount. .                 | . . . . | . . . .  | . . . .        | . . . .               |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- v. 2. *Ls. cottony on both sides (I. of Skye).*  
 ii. St. erect, shrubby—*Ls. lin.-lanc.*]

## Gen. XXX.

- i. St. simp., herb.—Heads in dense, leafless corymbs.  
 ii. St. simp., woolly—Heads axill. and term., forming a leafy rac.  
 v. 2. *Ls. broader—Spike dense, term.*  
 iii. St. tufted, one or two-headed—Heads sess., erect.  
 iv. St. spreading, much branched—Heads in term., crowded tufts.  
 v. 2. *Fr. papillose (Toft. Camb.).*

## Gen. XXXI.

- i. St. erect—*Ls. lin., revolute—Heads axill., shorter than the ls.*  
 ii. St. branched—*Ls. lin., flat—Heads term. and axill., longer than the ls.*  
 iii. St. erect, proliferous at summit—*Ls. lin., obt., waved—Heads five-angled in term., glab. heads.*  
 a. Heads obscurely five-angled—*Tips of invol. bracts yell.*  
 b. Taller—*Ls. broader—Heads acutely five-angled, overtopped by blunt ls.—Tips of invol. bracts red.*  
 c. Short—*Ls. spath.—Heads overtopped by acute ls.—Tips of invol. bracts pale.*

## Gen. XXXII.

- i. *Ls. very large, orb., cord., toothed, glab. above—Fls. in a dense spike, appearing before the ls.*

## Gen. XXXIII.

- i. *Ls. cord., ang., downy beneath—St. single-flowered.*

## Gen. XXXIV.

- i. *Ls. mostly rad.—St. one or two-headed—Rays (purple) much longer than disk.*  
 ii. St. leafy, branched—*Florets of the ray purplish, scarcely longer than disk.*  
 iii. St. leafy, branched—*Florets of the ray yellowish.]*

## Gen. XXXV.

- i. *Ls. spath., fleshy—Heads corymb., ray pu. ; disk yell.*  
 v. 2. *Ray wanting.*

## Gen. XXXVI.

- i. *Ls. ellip.-lanc., upper narrower—Fls. in paniced racemes.*  
 v. 2. *Tall—Ls. all lanc.*  
 v. 3. *Small—Rad. ls. broader—Fls. larger.*

ORD. XLVI.—COMPOSITÆ—*cont.*

| Botanical Name.                               | Common Name.                            | Soil<br>or<br>Situation. | Colour.   | Growth.              | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|-----------|----------------------|----------------|-----------------------|
| <b>Gen. XXXVII. Senecio,</b><br><i>L.</i>     | <i>Groundsel, Rag-<br/>wort.</i>        |                          |           |                      |                |                       |
| *<br>i. <i>S. vulgaris, L.</i> . . . .        | <i>common G.</i> . . . .                | Was. pl..                | Y.        | 6-12 in.             | A.             | 1-12                  |
| ii. <i>S. sylvaticus, L.</i> . . . .          | <i>Mountain G.</i> . . . .              | Dry pas.                 | Y.        | 1-3 ft.              | A.             | 7-9                   |
| iii. <i>S. viscosus, L.</i> . . . .           | <i>stinking G.</i> . . . .              | Was. pl..                | Y.        | 1-2 ft.              | A.             | 7-9                   |
| * *<br><i>A.</i>                              |   |                          |           |                      |                |                       |
| iv. <i>S. squalidus, L.</i> . . . .           | <i>inelegant R.</i> . . . .             | Old walls!               | Y.        | 8-12 in.             | A.             | 6-10                  |
| v. <i>S. erucifolius, L.</i> . . . .          | <i>hoary R.</i> . . . .                 | Waysides                 | Y.        | 1-4 ft.              | P.             | 7-8                   |
| vi. <i>S. Jacobæa, L.</i> . . . .             | <i>common R.</i> . . . .                | Waysides                 | Y.        | 1-4 ft.              | P.             | 7-8                   |
| vii. <i>S. aquaticus, Huds.</i> . . . .       | <i>Marsh R.</i> . . . .                 | Wet pl. .                | Y.        | 1-4 ft.              | P.             | 7-8                   |
| v. 2. <i>pinnatifidus</i> . . . .             | . . . . .                               | . . . . .                | . . . . . | . . . . .            | . . . . .      | . . . . .             |
| <i>B.</i>                                     |   |                          |           |                      |                |                       |
| viii. <i>S. paludosus, L.</i> . . . .         | <i>great Fen R.</i> . . . .             | Fens!<br>E. of E.        | Y.        | 3-6 ft.              | P.             | 6-7                   |
| [ix. <i>S. saracenicus, L.</i> . . . .        | <i>broad-leaved R.</i> . . . .          | Moist<br>mead.!          | Y.        | 3-5 ft.              | P.             | 6-7                   |
| <b>Gen. XXXVIII. Cineraria,</b><br><i>L.</i>  | <i>Flea-wort.</i>                       |                          |           |                      |                |                       |
| i. <i>C. palustris, L.</i> . . . .            | <i>Marsh F.</i> . . . .                 | Fens!<br>E. of E.        | Y.        | 2-3 ft.              | P.             | 6-7                   |
| ii. <i>C. campestris, Retz.</i> . . . .       | <i>Field F.</i> . . . .                 | Ch. downs.!              | Y.        | 4-12 in.             | P.             | 5-6                   |
| v. 2. <i>maritima, Sy.</i> . . . .            | . . . . .                               | . . . . .                | . . . . . | . . . . .            | . . . . .      | . . . . .             |
| <b>Gen. XXXIX. Doronicum,</b><br><i>L.</i>    | <i>Leopard's-bane.</i>                  |                          |           |                      |                |                       |
| [i. <i>D. Pardalianches, L.</i> . . . .       | <i>great L.</i> . . . .                 | Dp. wds.!                | Y.        | 2-3 ft.              | P.             | 5-7                   |
| iii. <i>D. plantagineum, L.</i> . . . .       | <i>plaintain-leaved<br/>L.</i>          | Dp. wds.!                | Y.        | 2-3 ft.              | P.             | 5-7                   |
| <b>Gen. XL. Inula, L.</b>                     | <i>Inula, &amp;c.</i>                   |                          |           |                      |                |                       |
| i. <i>I. Helenium, L.</i> . . . .             | <i>Elecampane</i> . . . .               | Moi.<br>mead.!           | Y.        | 2-5 ft.              | P.             | 7-8                   |
| ii. <i>I. Conyza, DC.</i> . . . .             | <i>Ploughman's<br/>Spikenard.</i>       | Ch. pas..                | Y.        | 2-5 ft.              | B.             | 7-9                   |
| iii. <i>I. salicina, L.</i> . . . .           | . . . . .                               | I.!                      | y W.      | 12-18 in.            | P.             | 7-9                   |
| iv. <i>I. crithmoides, L.</i> . . . .         | <i>golden Samphire</i>                  | Sea sh.!                 | Y.        | 6-18 in.             | P.             | 7-8                   |
| v. <i>I. dysenterica, L.</i> . . . .          | <i>Flea-bane</i> . . . .                | SW. of E.                | Y.        | 6-12 in.             | P.             | 7-9                   |
| vi. <i>I. Pulicaria, L.</i> . . . .           | <i>small F.</i> . . . .                 | Moi. pl. .<br>Moi. pl. . | Y.<br>Y.  | 6-12 in.<br>6-12 in. | P.<br>A.       | 7-9<br>8-9            |
| <b>Gen. XLI. Bellis. L.</b>                   | <i>Daisy.</i>                           |                          |           |                      |                |                       |
| i. <i>B. perennis, L.</i> . . . .             | <i>common D.</i> . . . .                | Past. . .                | W.        | 2-5 in.              | P.             | 1-12                  |
| <b>Gen. XLII. Chrysanthemum,</b><br><i>L.</i> | <i>Ox-eye.</i>                          |                          |           |                      |                |                       |
| i. <i>C. segetum, L.</i> . . . .              | <i>yellow O., or Corn<br/>Marigold.</i> | Corn fie.                | Y.        | 12-18 in.            | A.             | 6-9                   |
| ii. <i>C. Leucanthemum, L.</i>                | <i>great white O.</i> . . . .           | Dry pas.                 | W.        | 1-2 ft.              | P.             | 6-8                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XXXVII.

\* *Florets of the ray revolute or wanting.*

- i. Glab.—Ray florets wanting.
- ii. Slightly viscid—Ray floret revolute—Outer invol. bracts very short.
- iii. Viscid and hairy—Ray florets revolute—Outer invol. bracts half as long as inner.  
\* \* *Florets of the ray spreading.*  
*A. Ls. pinnfid. or lyrate.*
- iv. Ls. pinnfid., glab. ; seg. lin.—Outer invol. bracts few, small, very short.]
- v. St. cottony—Ls. pinnfid., downy beneath—Outer invol. bracts half as long as inner  
—Fr. all hairy.
- vi. St. smooth—Ls. lyr.-pinnfid., glab.—Fr. of the ray glab.
- vii. Root ls. ent. ; upper lyr., serr.—Fr. all glab.
- v. 2. *Ls. all pinnfid.*  
*B. Leaves entire.*
- viii. St. hollow—Ls. lanc., sharply serr., woolly beneath.
- ix. St. solid—Ls. lanc., irregularly serr., glab.]

## Gen. XXXVIII.

- i. St. branched—Ls. lanc., semi-amplex. ; lower sinu. dent.
- ii. St. simple—Rad. ls. oval, ent. ; st. ls. lanc.—Heads corymb.
- v. 2. *Larger—Heads many, umbellate—Lower ls. toothed (Holyhead).*

## Gen. XXXIX.

- i. Rad. ls. cord. ; st. ls. with clasping aur.—Heads 3-5.]
- ii. Rad. ls. ovate ; st. ls. sess. — Heads sol.]

## Gen. XL.

- i. Ls. large, cord.-ov., unequally toothed, wrinkled—Heads very large ; invol. bracts leafy, ovate, reflexed.
- ii. Ls. oval-lanc., pubesc., serr. ; upper ent.—Invol. bracts lin., reflexed.
- iii. Ls. lin., obl., toothed ; upper sess.—Heads sol.—(Shores of Lough Derg, Galway).
- iv. Ls. lin., fleshy, pointed—Invol. bracts lin., adpressed.
- v. St. woolly—Ls. obl. cord.—Heads corymb. ; ray much longer than disk.
- vi. Ls. lanc., wavy, base narrow—Heads term. and axill. ; ray scarcely longer than disk.

## Gen. XLI.

- i. Ls. ob.-ov., glab.—St. one-flowered.

## Gen. XLII.

- i. Ray yellow—Invol. bracts with broad membr. margins.
- ii. Ray white—Invol. bracts with narrow membr. margins.

ORD. XLVI.—COMPOSITÆ—*cont.*

| Botanical Name.                           | Common Name.                                | Soil<br>or<br>Situation. | Colour.     | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|-------------|-----------|----------------|-----------------------|
| <b>Gen. XLIII. <i>Matricaria</i>, L.</b>  | <i>Wild Chamomile, Feverfew.</i>            |                          |             |           |                |                       |
| i. <i>M. Parthenium</i> , L. . .          | <i>common F.</i> . . .                      | Was. pl..                | W.          | 1-2 ft.   | P.             | 7-9                   |
| ii. <i>M. inodora</i> , L. . . .          | <i>Corn F., or scent-<br/>less Mayweed.</i> | Was. pl..                | W.          | 1-2 ft.   | A.             | 6-10                  |
| v. 2. <i>maritima</i> , Pers. . .         |   | Sea sh. .                | ..          | ..        | ..             | ..                    |
| iii. <i>M. Chamomilla</i> , L. . .        | <i>wild C.</i> . . . . .                    | Was. pl..                | W.          | 12-18 in. | A.             | 6-8                   |
| <b>Gen. XLIV. <i>Anthemis</i>, L.</b>     | <i>Chamomile.</i>                           |                          |             |           |                |                       |
| i. <i>A. nobilis</i> , L. . . . .         | <i>common C.</i> . . . .                    | Downs .                  | W.          | 6-12 in.  | P.             | 7-9                   |
| ii. <i>A. arvensis</i> , L. . . .         | <i>Corn C.</i> . . . . .                    | Corn fie.                | W.          | 1-2 ft.   | A.             | 6-8                   |
| v. 2. <i>anglica</i> , Spr. . . . .       |   |                          |             |           |                |                       |
| iii. <i>A. Cotula</i> , L. . . . .        | <i>stinking C.</i> . . . .                  | Corn fie.                | W.          | 8-16 in.  | A.             | 6-9                   |
| <b>Gen. XLV. <i>Achillea</i>, L.</b>      | <i>Yarrow, Milfoil.</i>                     |                          |             |           |                |                       |
| i. <i>A. Ptarmica</i> , L. . . . .        | <i>Sneeze-wort.</i> . . .                   | Mead.. .                 | W.          | 1-2 ft.   | P.             | 7-8                   |
| ii. <i>A. Millefolium</i> , L. . .        | <i>common Y., or M.</i>                     | Waysides                 | W.<br>orPk. | 6-18 in.  | P.             | 6-9                   |
| <b>Gen. XLVI. <i>Galinsoga</i>, Ruiz.</b> |   |                          |             |           |                |                       |
| [i. <i>G. parviflora</i> , Cav. . .       | . . . . .                                   | Waysides,<br>Kew.        | Y.          | 1-2 ft.   | A.             | 8-10                  |

## ORD. XLVII.—CAMPANULACEÆ.

|                                       |   |                    |             |          |    |     |
|---------------------------------------|---|--------------------|-------------|----------|----|-----|
| <b>Gen. I. <i>Campanula</i>, L.</b>   | <i>Bell-flower.</i>                       |                    |             |          |    |     |
| i. <i>C. rotundifolia</i> , L. . .    | <i>round-leaved C.,<br/>or Hair-bell.</i> | Heaths .           | B.          | ½-2 ft.  | P. | 7-9 |
| v. 2. <i>montana</i> , Sy. . . . .    |   |                    |             |          |    |     |
| ii. <i>C. patula</i> , L. . . . .     | <i>spreading B.</i> . . .                 | Copses !.          | B.          | 1-3 ft.  | A. | 7-9 |
| iii. <i>C. Rapunculus</i> , L. . .    | <i>Rampion B.</i> . . .                   | Grav.<br>waysides. | B.          | 2-3 ft.  | P. | 7-8 |
| iv. <i>C. latifolia</i> , L. . . . .  | <i>Giant B.</i> . . . . .                 | Moi. wds.          | B. or<br>W. | 3-5 ft.  | P. | 7-8 |
| v. <i>C. rapunculoides</i> , L. . .   | <i>creeping B.</i> . . . .                | Woods .            | B.          | 1-2 ft.  | P. | 7-8 |
| vi. <i>C. Trachelium</i> , L. . .     | <i>nettle-leaved B.</i> . .               | Woods .            | B.          | 1-3 ft.  | P. | 7-9 |
| vii. <i>C. glomerata</i> , L. . . .   | <i>clustered B.</i> . . . .               | Downs .            | B.          | 6-18 in. | B. | 7-8 |
| viii. <i>C. persicifolia</i> , L. . . | <i>Peach-leaved B.</i> . .                | Woods !<br>Cullen. | B.          | 1-2 ft.  | P. | 7   |
| ix. <i>C. hederacea</i> , L. . . . .  | <i>Ivy-leaved B.</i> . . .                | Moi. wds.          | ½ B.        | Cr.      | P. | 7-8 |
| x. <i>C. hybrida</i> , L. . . . .     | <i>Corn B.</i> . . . . .                  | Cha. fie..         | B.          | 6-10 in. | A. | 7-9 |

ORD. XLVI.—COMPOSITÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XLIII.

- i. Ls. pinn., stalked ; seg. ovate, lobed—Heads corymb.
- ii. Ls. bipinnid., sess. ; seg. capill.—Heads sol.

v. 2. *Seg. of ls. fleshy.*

- iii. Ls. bipinn. ; seg. lin.—Heads sol., long-stalked—Recep. con., hollow.

## Gen. XLIV.

- i. St. procumb.—Ls. bipinn. ; seg. lin., slightly downy—Invol. bracts blunt—Aromatic.
- ii. St. erect—Ls. bi-pinnid., hoary—Invol. bracts acute—Recep. con.
- v. 2. *Ls. fleshy—Recep. flat—(Sea coast, Northumb.).*
- iii. St. erect, much branched—Ls. bipinnid., glab. ; seg. subul.—Invol. bracts lin., setaceous—Fœtid.

## Gen. XLV.

- i. Ls. lin.-lanc., serr., glab.
- ii. Ls. bipinnid., woolly.

## Gen. XLVI.

- i. St. slender—Ls. ov., bluntly serr.—Fls. in dichot cymes.]

## ORD. XLVII.—CAMPANULACEÆ.

## Gen. I.

- i. St. slender, glab.—Rad. ls. cord. ; st. ls., lin. or lanc.—Fls. rac., drooping.
- v. 2. *Lower st. ls. obl.—Fls. sol.*
- ii. St. ang., scabr.—Rad. ls. ob.-ov. ; st. ls. lin.—Fls. pani., erect, long stalked—Cal seg. toothed at base.
- iii. Hispid—St. angled—St. ls. obl.-lanc.—Fls. pani., erect—Cal. seg. narrow ent.
- iv. St. simple, furrowed, leafy—Ls. ov.-lanc., doubly serr., lower stalked, upper sess.—Pedunc. one-flowered—Cal. seg. lin.
- v. St. slightly branched—Ls. scabr., unequally serr., lower long-stalked, upper lanc., sess.—Fls. unilat.—Cal. seg. lin.
- vi. St. angled, rough—Ls. coarsely serr. ; lower cord., long stalked ; upper lanc., acum., nearly sess.—Pedunc. 2-3 flowered—Cal. segm. lanc., rough.
- vii. St. simp., ang.—Ls. scab., obl.-lanc. ; st. ls. semi-amplex.—Fls. erect, sess., in term. and axill. clusters.
- viii. Glab.—St. round, few-flowered—Rad. ls. ob.-ov. stalked ; st. ls. lin., sess.—Cal seg. lanc., ent.]
- ix. St. fili.—Ls. alt., stalked, cord., lobed, glab.—Pedunc. sol.
- x. St. erect, hispid.—Ls. obl., waved—Fls. sess. axill.—Caps fusi., angled.

## ORD. XLVII.—CAMPANULACEÆ—cont.

| Botanical Name.                     | Common Name.               | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|-------------------------------------|----------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. II. <i>Phyteuma</i>, L.</b> | <i>Rampion.</i>            |                          |         |           |                |                       |
| i. <i>P. orbiculare</i> , L. . . .  | <i>round-leaved R.</i> . . | Ch. downs!               | B.      | 6-18 in.  | P.             | 7-8                   |
| ii. <i>P. spicatum</i> , L. . . .   | <i>spiked R.</i> . . . .   | Thick!                   | Y.      | 2-3 ft.   | P.             | 6-7                   |
| <b>Gen. III. <i>Jasione</i>, L.</b> | <i>Sheep's-bit.</i>        |                          |         |           |                |                       |
| i. <i>J. montana</i> , L. . . .     | <i>annual S.</i> . . . .   | Heaths .                 | B.      | 6-10 in.  | A.             | 6-9                   |
| <b>Gen. IV. <i>Lobelia</i>, L.</b>  | <i>Lobelia.</i>            |                          |         |           |                |                       |
| i. <i>L. urens</i> , L. . . . .     | <i>acrid L.</i> . . . .    | Heaths!                  | Pu.     | 12-18 in. | P.             | 8-9                   |
| ii. <i>L. Dortmanna</i> , L. . .    | <i>Water L.</i> . . . .    | Lakes .                  | ♂ B.    | 1-2 ft.   | P.             | 7-8                   |

## ORD. XLVIII.—ERICACEÆ.

|  |  |                       |              |           |      |     |
|--|--|-----------------------|--------------|-----------|------|-----|
| <b>Gen. I. <i>Erica</i>, L.</b>                      | <i>Heath.</i>                          |                       |              |           |      |     |
| * . . . .  |  |                       |              |           |      |     |
| i. <i>E. Tetralix</i> , L. . . .                     | <i>cross-leaved H.</i> .               | Heaths .              | Ro.          | 12-18 in. | Shb. | 7-8 |
| v. 2. <i>Mackiana</i> , Bab. . .                     | . . . .                                | . . . .               | . .          | . .       | . .  | . . |
| v. 3. <i>Watsoni</i> , Benth. . .                    | . . . .                                | . . . .               | . .          | . .       | . .  | . . |
| ii. <i>E. ciliaris</i> , L. . . . .                  | <i>ciliate H.</i> . . . .              | Heaths!<br>S.W. of E. | Cr.          | 12-18 in. | Shb. | 6-9 |
| iii. <i>E. cinerea</i> , L. . . . .                  | <i>fine-leaved H.</i> .                | Heaths .              | Cr.          | 1-2 ft.   | Shb. | 7-9 |
| * * . . . .  |  |                       |              |           |      |     |
| iv. <i>E. hybernica</i> , Sy. . .                    | . . . .                                | Boggy<br>heaths! I.   | Pk.          | 2-5 ft.   | Shb. | 4-5 |
| v. <i>E. vagans</i> , L. . . . .                     | <i>Cornish H.</i> . . .                | Heaths!<br>Corn.      | Cr.          | 1-3 ft.   | Shb. | 7-8 |
| <b>Gen. II. <i>Calluna</i>, Salisb.</b>              | <i>Ling.</i>                           |                       |              |           |      |     |
| i. <i>C. vulgaris</i> , Salisb. . .                  | <i>common L.</i> . . .                 | Heaths .              | Ro.<br>or W. | 1-2 ft.   | Shb. | 7-9 |
| a. <i>glabrata</i> . . . . .                         | . . . .                                | . . . .               | . .          | . .       | . .  | . . |
| b. <i>incana</i> . . . . .                           | . . . .                                | . . . .               | . .          | . .       | . .  | . . |
| <b>Gen. III. <i>Menziesia</i>, Sm.</b>               | <i>Menziesia.</i>                      |                       |              |           |      |     |
| i. <i>M. cærulea</i> , Swtz. . .                     | <i>Scottish M.</i> . . .               | Sow of<br>Athol.      | Li.          | 5-10 in.  | Shb. | 6-7 |
| ii. <i>M. polifolia</i> , Fuss. . .                  | <i>Irish M., or St.<br/>Dabeocs H.</i> | Moist<br>heaths, I.   | Pu.          | 1-2 ft.   | Shb. | 7-8 |
| <b>Gen. IV. <i>Loiseleuria</i>,<br/><i>Desv.</i></b> | <i>Azalea.</i>                         |                       |              |           |      |     |
| i. <i>L. procumbens</i> , Desv.                      | <i>trailing A.</i> . . .               | Sc. mount.!           | Pk.          | 2-3 in.   | Shb. | 5-6 |
| <b>Gen. V. <i>Andromeda</i>, L.</b>                  | <i>Andromeda.</i>                      |                       |              |           |      |     |
| i. <i>A. polifolia</i> , L. . . .                    | <i>Marsh A.</i> . . . .                | Peat bogs!            | Pk.          | 6-12 in.  | Shb. | 6-8 |



ORD. XLVII.—CAMPANULACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. II.

- i. Heads of fls. glob., blue ; of fr. oval.
- ii. Heads of fls. obl., yellowish ; of fr. elongate (Suss.).

## Gen. III.

- i. Ls. obl., wavy, blunt—Fls. small in term., hemisph., heads.

## Gen. IV.

- i. St. erect, leafy—Rad. ls. ob.-ov. ; upper lan., sess. (Axminster).
- ii. St. simple—Ls. all rad., submerged, cylind., of two parallel tubes.

## ORD. XLVIII.—ERICACEÆ.

## Gen. I.

\* *Anthers included.*

- i. Ls. four in a whorl, lanc., downy above—Fls. sub-umbell. ; sep. lin., downy—Ovary downy.
- v. 2. *Ls. glab. above—Sep. ov.-lanc., glab.—Ovary glab.—(Galway.)*
- v. 3. *Like E. Tetralix, but coroll. ventri. and fls. racemed.—(Truro.)*
- ii. Ls. four in a whorl, ov., ciliate—Fls. in a term., unilat. rac.
- iii. Ls. three in a whorl, lin., keeled, glab.—Fls. in a dense, whorled rac.
- \* \* *Anthers exerted.*
- iv. Ls. four in a whorl, lin., glab.—Fls. in a dense rac.—Cor. urc. ; anth. half exerted.
- v. Ls. 4-5 in a whorl, lin., glab.—Fls. axill., crowded—Cor. short, campan.

## Gen. II.

- i. Ls. small, opp., imbri. in four rows—Fls. small, drooping, shortly stalked.

a. Ls. glabrous.

b. Ls. hoary.

(*The two forms are connected by intermediate varieties.*)

## Gen. III.

- i. Ls. lin., toothed—Fls. few, term., aggreg. ; cor. five-cleft.
- ii. Ls. oval, cili., downy beneath—Fls. in term., leafy rac. ; cor. four-cleft.

## Gen. IV.

- i. St. procumb., woody—Ls. opp., lin.-obl., revol.—Fls. term., aggreg.

## Gen. V.

- i. Ls. alt., lan., glab., glauc. beneath, margins revol.—Fls. in short, term. rac.

ORD. XLVIII.—ERICACEÆ—*cont.*

| Botanical Name.                           | Common Name.                              | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. VI. Arbutus, L.</b>               | <i>Strawberry Tree.</i>                   |                          |         |          |                |                       |
| i. <i>A. Unedo, L.</i> . . . . .          | <i>austere S.</i> . . . . .               | Woods, I.!               | Cr.     | 8-10 ft. | Shb.           | 9-10                  |
| <b>Gen. VII. Arctostaphylos, Adanson.</b> | <i>Bear-berry.</i>                        |                          |         |          |                |                       |
| i. <i>A. alpina, Spreng.</i> . .          | <i>black B.</i> . . . . .                 | Sc. mount.               | W.      | 3-4 in.  | Shb.           | 6-8                   |
| ii. <i>A. Uva-Ursi, Spreng.</i>           | <i>red B.</i> . . . . .                   | Sc. mount.               | Pk.     | 4-6 in.  | Shb.           | 5-6                   |
| <b>Gen. VIII. Vaccinium, L.</b>           | <i>Bilberry, Whortleberry, &amp;c.</i>    |                          |         |          |                |                       |
| i. <i>V. Myrtillus, L.</i> . . . .        | <i>B. or W.</i> . . . . .                 | Heaths .                 | Ro.     | 6-18 in. | Shb.           | 4-6                   |
| ii. <i>V. uliginosum, L.</i> . . .        | <i>great B. or bog W.</i>                 | Mount.<br>bogs!          | ♂Pk.    | 6-10 in. | Shb.           | 5-6                   |
| iii. <i>V. Vitis-Idæa, L.</i> . .         | <i>red W. or Cowberry.</i>                | Mount.<br>heaths.        | ♂Pk.    | 6-18 in. | Shb.           | 6-8                   |
| iv. <i>V. Oxycoccos, L.</i> . . .         | <i>Cranberry.</i> . . . .                 | Peat bogs                | R.      | Cr.      | Shb.           | 7-8                   |
| <b>Gen. IX. Pyrola, L.</b>                | <i>Winter-Green.</i>                      |                          |         |          |                |                       |
| i. <i>P. rotundifolia, L.</i> . . .       | <i>round-leaved W.</i>                    | Moi. wds.!               | W.      | 8-12 in. | P.             | 7-9                   |
| v. 2. <i>arenaria, Koch.</i> . . .        | . . . . .                                 | San. sh.<br>Lancas.      | . .     | . .      | . .            | . .                   |
| ii. <i>P. media, Swartz.</i> . . .        | <i>intermediate W.</i>                    | Woods!                   | W.      | 8-12 in. | P.             | 6-7                   |
| iii. <i>P. minor, L.</i> . . . . .        | <i>lesser W.</i> . . . . .                | Woods .                  | W.      | 8-12 in. | P.             | 6-7                   |
| iv. <i>P. secunda, L.</i> . . . . .       | <i>serrate W.</i> . . . .                 | Mount.<br>woods!         | ♂W.     | 2-5 in.  | P.             | 7-8                   |
| v. <i>P. uniflora, L.</i> . . . . .       | <i>large-flowered W.,<br/>or Moneses.</i> | Sc. fir.<br>woods!       | W.      | 1-3 in.  | P.             | 7-8                   |
| <b>Gen. X. Monotropa, L.</b>              | <i>Bird's-nest.</i>                       |                          |         |          |                |                       |
| i. <i>M. Hypopitys, L.</i> . . .          | <i>yellow B.</i> . . . . .                | Beech<br>woods!          | Y.      | 6-12 in. | P.             | 7-8                   |
| a. <i>glabra, Roth.</i> . . . . .         | . . . . .                                 | . . . . .                | . .     | . .      | . .            | . .                   |
| b. <i>hirsuta, Roth.</i> . . . . .        | . . . . .                                 | . . . . .                | . .     | . .      | . .            | . .                   |

## ORD. XLIX.—AQUIFOLIACEÆ.

|                                   |                          |         |    |          |    |     |
|-----------------------------------|--------------------------|---------|----|----------|----|-----|
| <b>Gen. I. Ilex, L.</b>           | <i>Holly.</i>            |         |    |          |    |     |
| i. <i>I. Aquifolium, L.</i> . . . | <i>common H.</i> . . . . | Woods . | W. | 10-30ft. | T. | 5-8 |

## ORD. L.—OLEACEÆ.

|                                    |                          |          |    |          |      |     |
|------------------------------------|--------------------------|----------|----|----------|------|-----|
| <b>Gen. I. Ligustrum, L.</b>       | <i>Privet.</i>           |          |    |          |      |     |
| i. <i>L. vulgare, L.</i> . . . . . | <i>common P.</i> . . . . | Thick. . | W. | 4-10 ft. | Shb. | 6-7 |

ORD. XLVIII.—ERICACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. VI.

- i. St. rough—Ls. ellip.-lanc., sess.—Fls. pend.—Fr. tubercled.

## Gen. VII.

- i. Ls. wrinkled, serr.—Fr. black.  
 ii. Ls. ob.-ov., everg., ent.—Fr. red.

## Gen. VIII.

\* *Ls. deciduous.*

- i. St. erect, ang.—Ls. ov., serr.  
 ii. St. procumb., round—Ls. ob.-ov., ent., glaucous beneath.  
 \* \* *Ls. evergreen.*  
 iii. St. woody, procumb.—Ls. ob.-ov., dotted beneath; margins slightly revol.—Cor campan.  
 iv. St. fili. cr.—Ls. ov.-obl., ent., glauc. beneath; marg. very revol.—Cor. rotate, seg reflexed.

## Gen. IX.

\* *Fls. racemose.*

- i. Sta. erect, shorter than the decurved sty. which is bent at the extremity.  
 v. 2. *Ls. small—Scape with bracts.*  
 ii. Sta. incurved, shorter than the decurved, straight style.  
 iii. Sta. incurved as long as the short, straight style.  
 iv. Sta. shorter than the long, ascending style—Ls. serr.—Fls. unilat.  
 \* \* *Fls. sol.*  
 v. Ls. few, round, serr.—Fls. large, drooping.

## Gen. X.

- i. St. scaly, succ.—Fls. rac.  
 a. Fls. glab.  
 b. Inside of pet., sep., filaments and ovary hairy.

## ORD. XLIX.—AQUIFOLIACEÆ.

## Gen. I.

- i. Ls. spiny, ovate, evergreen.

## ORD. L.—OLEACEÆ.

## Gen. I.

1. Ls. ellip.-lanc., ent., glab., opp.—Fls. panicled.

ORD. L.—OLEACEÆ—*cont.*

| Botanical Name.                    | Common Name.             | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering |
|------------------------------------|--------------------------|--------------------------|---------|---------|----------------|----------------------|
| <b>Gen. II. Fraxinus, L.</b>       | <i>Ash.</i>              |                          |         |         |                |                      |
| i. <i>F. excelsior, L.</i> . . . . | <i>common A.</i> . . . . | Woods .                  | ..      | ..      | T.             | 4-5                  |
| v. 2. <i>heterophyllus, Vahl.</i>  | . . . .                  | . . . .                  | ..      | ..      | ..             | ..                   |

## ORD. LI.—APOCYNACEÆ.

|                                  |                          |          |    |          |    |     |
|----------------------------------|--------------------------|----------|----|----------|----|-----|
| <b>Gen. I. Vinca, L.</b>         | <i>Periwinkle.</i>       |          |    |          |    |     |
| i. <i>V. minor, L.</i> . . . .   | <i>lesser P.</i> . . . . | Thick. . | B. | 1-2 ft.  | P. | 4-5 |
| iii. <i>V. major, L.</i> . . . . | <i>great P.</i> . . . .  | Thick. . | B. | 6-12 in. | P. | 4-5 |

## ORD. LII.—GENTIANACEÆ.

|                                       |                          |                          |       |           |    |      |
|---------------------------------------|--------------------------|--------------------------|-------|-----------|----|------|
| <b>Gen. I. Gentiana, L.</b>           | <i>Gentian.</i>          |                          |       |           |    |      |
| * . . . .                             |                          |                          |       |           |    |      |
| i. <i>G. verna, L.</i> . . . .        | <i>Spring G.</i> . . . . | Alp. pas.!               | B.    | 1-2 in.   | P. | 4-6  |
| ii. <i>G. Pneumonanthe, L.</i>        | <i>Marsh G.</i> . . . .  | Moi. hths.!              | B.    | 4-10 in.  | P. | 8-9  |
| iii. <i>G. nivalis, L.</i> . . . .    | <i>small alpine G.</i> . | Sc.mount.!               | B.    | 1-6 in.   | A. | 7-8  |
| * * . . . .                           |                          |                          |       |           |    |      |
| iv. <i>G. Amarella, L.</i> . . . .    | <i>small-flowered G.</i> | Dry hths.                | ♂ Pu. | 3-12 in.  | A. | 8-9  |
| v. 2. <i>germanica, Willd.</i> . .    |                          |                          |       |           |    |      |
| v. <i>G. campestris, L.</i> . .       | <i>Field G.</i> . . . .  | Cha. hills               | ♂ Pu. | 3-10 in.  | A. | 8-9  |
| <b>Gen. II. Cicendia, Adams.</b>      | <i>Cicendia.</i>         |                          |       |           |    |      |
| i. <i>C. filiformis, Reich.</i> .     | <i>least C.</i> . . . .  | San. bogs!<br>S.W. of E. | Y.    | 4-8 in.   | A. | 7-10 |
| ii. <i>C. pusilla, Griseb.</i> . .    | . . . .                  | San. com.!<br>Guernsey.  | Pk.   | 1-2 in.   | A. | 7-9  |
| <b>Gen. III. Erythrœa, Ren.</b>       | <i>Centaury.</i>         |                          |       |           |    |      |
| * . . . .                             |                          |                          |       |           |    |      |
| i. <i>E. Centaurium, Pers.</i>        | <i>common C.</i> . . . . | Dry pas.                 | Ro.   | 6-18 in.  | A. | 6-9  |
| v. 2. <i>latifolia, E. B. S.</i> . .  | . . . .                  | . . . .                  | ..    | ..        | .. | ..   |
| ii. <i>E. pulchella, Fries.</i> .     | <i>dwarf C.</i> . . . .  | San. sh. .               | Ro.   | 1-4 in.   | A. | 6-9  |
| * * . . . .                           |                          |                          |       |           |    |      |
| iii. <i>E. littoralis, Fries.</i> . . | <i>tufted C.</i> . . . . | San. sh.!                | Ro.   | 2-6 in.   | A. | 6-9  |
| iv. <i>E. latifolia, Sm.</i> . . . .  | <i>broad-leaved C.</i> . | San. sh.!                | Ro.   | 2-6 in.   | A. | 6-9  |
| <b>Gen. IV. Chlora, L.</b>            | <i>Yellow-wort.</i>      |                          |       |           |    |      |
| i. <i>C. perfoliata, L.</i> . . . .   | <i>perfoliate Y.</i> . . | Ch. pas..                | Y.    | 6-18 in.  | A. | 6-9  |
| <b>Gen. V. Villarsia, Vent.</b>       | <i>Villarsia.</i>        |                          |       |           |    |      |
| i. <i>V. nymphæoides, Vent.</i>       | <i>Nymphæa-like V.</i>   | Ponds! .                 | Y.    | <b>FL</b> | P. | 7-8  |

ORD. L.—OLEACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. II.

- i. Ls. pinn. ; lfts. obl.-lanc., serr., sess.—Sep. and pet. wanting.  
 v. 2. *Ls. simp.*

## ORD. LI.—APOCYNACEÆ.

## Gen. I.

- i. Ls. ellip.-lanc. ; margins glab.  
 ii. Ls. ov., cord. ; margins ciliate.]

## ORD. LII.—GENTIANACEÆ.

## Gen. I.

\* *Throat of calyx naked.*

- i. St tufted, one-flowered—Ls. ov.—Cor. salver-shaped, with five large and five small bifid. segm.  
 ii. St. erect—Ls. lin., obt.—Fls. term. and axill. ; cor. large, bell-shaped, five-cleft.  
 iii. St. branched—Ls. ellip.—Fls. sol. ; cor. funnel-shaped, with five large and five small, bifid. seg.  
 \* \* *Throat of calyx fringed.*  
 iv. Corolla 4-5 cleft—Cal. five-cleft, seg. equal.  
 v. 2. *Larger—Fls. ob.-conical—Cal. lobes unequal, shorter than cor. tube.*  
 v. Corolla four-cleft—Cal. four-cleft ; two outer seg. large, ovate.

## Gen. II.

- i. St. slend., forked—Fls. yell.—Cal. camp.  
 ii. St. much branched—Fls. pink—Cal. four-part ; seg. lin., adpr.

## Gen. III.

\* *Cal. about half as long as tube of opening corolla.*

- i. St. erect, simple below—Ls. ellip.-obl.—Fls. corym., paniced.  
 v. 2. *A stunted broad-leaved variety.*  
 ii. St. much branched—Ls. ov.-obl.—Fls. term. and axill.  
 \* \* *Cal. as long as tube of opening corolla.*  
 iii. St. simp.—Ls. obl.-lin., lower ones spath.—Fls. corymb.  
 iv. St. branched—Ls. broadly ellip.—Fls. in dense, forked tufts.

## Gen. IV.

- i. Glau.—St. simp.—Ls. ov., conn.

## Gen. V.

- i. Ls. flo., heart-shaped—Pedunc. one-flowered—Cor. cinn.

ORD. LII.—GENTIANACEÆ—*cont.*

| Botanical Name.                   | Common Name.                    | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|-----------------------------------|---------------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. VI. Menyanthes, L.</b>    | <i>Buckbean.</i>                |                          |         |         |                |                       |
| i. <i>M. trifoliata, L.</i> . . . | <i>B. or Marsh<br/>Trefoil.</i> | Bogs . .                 | W.      | 3-8 in. | P.             | 5-7                   |

## ORD. LIII.—POLEMONIACEÆ.

|                                 |                          |           |    |         |    |     |
|---------------------------------|--------------------------|-----------|----|---------|----|-----|
| <b>Gen. I. Polemonium, L.</b>   | <i>Jacob's Ladder.</i>   |           |    |         |    |     |
| i. <i>P. cœruleum, L.</i> . . . | <i>blue J.</i> . . . . . | Copses !. | B. | 1-3 ft. | P. | 6-7 |

## ORD. LIV.—CONVOLVULACEÆ.

|  |                            |            |       |          |    |     |
|--|----------------------------|------------|-------|----------|----|-----|
| <b>Gen. I. Convolvulus, L.</b>           | <i>Bindweed.</i>           |            |       |          |    |     |
| i. <i>C. arvensis, L.</i> . . . .        | <i>small B.</i> . . . .    | Fie. . . . | Pk.   | 6-24 in. | P. | 6-8 |
| ii. <i>C. sepium, L.</i> . . . .         | <i>great B.</i> . . . .    | Hed. . .   | W.    | 3-5 ft.  | P. | 6-8 |
| iii. <i>C. Soldanella, L.</i> . .        | <i>Sea-side B.</i> . . . . | San. sh. . | ♂ Pu. | 6-12 in. | P. | 6-8 |
| <b>Gen. II. Cuscuta, L.</b>              | <i>Dodder.</i>             |            |       |          |    |     |
| *<br>i. <i>C. Europæa, L.</i> . . . .    | <i>great D.</i> . . . .    | Waysides!  | γ Pk. | Cl.      | A. | 7-9 |
| [ii. <i>C. Epilinum, Weihe.</i>          | <i>flax D.</i> . . . .     | Flax fie.! | γ Pk. | Cl.      | A. | 8   |
| * *<br>[iii. <i>C. Epithymum, L.</i> . . | <i>lesser D.</i> . . . .   | Heaths .   | γ Pk. | Cl.      | A. | 8-9 |
| iv. <i>C. Trifolii, Bab.</i> . . . .     | <i>Clover D.</i> . . . .   | Clo. fie.! | γ Pk. | Cl.      | A. | 8-9 |

## ORD. LV.—SOLANACEÆ.

|                                       |   |           |     |          |    |      |
|---------------------------------------|---|-----------|-----|----------|----|------|
| <b>Gen. I. Hyoscyamus, L.</b>         | <i>Henbane.</i>                           |           |     |          |    |      |
| i. <i>H. niger, L.</i> . . . . .      | <i>common H.</i> . . . .                  | Was. pl.. | Y.  | 1-2 ft.  | B. | 6-9  |
| <b>Gen. II. Solanum, L.</b>           | <i>Nightshade.</i>                        |           |     |          |    |      |
| i. <i>S. nigrum, L.</i> . . . . .     | <i>common N.</i> . . . .                  | Was. pl.. | W.  | 6-24 in. | B. | 6-11 |
| v. 2. <i>miniatum, Bernh.</i> . . . . | .....                                     | Jersey .  | ..  | ..       | .. | ..   |
| ii. <i>S. Dulcamara, L.</i> . . .     | <i>Woody N., or<br/>Bittersweet.</i>      | Hedges .  | Pu. | 4-6 ft.  | P. | 6-8  |
| v. 2. <i>marinum</i> . . . . .        | .....                                     | Sea co. . | ..  | ..       | .. | ..   |
| <b>Gen. III. Atropa, L.</b>           | <i>Deadly Night-<br/>shade, or Dwale.</i> |           |     |          |    |      |
| i. <i>A. Belladonna, L.</i> . . .     | .....                                     | Was. pl.! | Pu. | 2-3 ft.  | P. | 6-8  |

ORD. LII.—GENTIANACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. VI.

- i. Ls. tern. ; lfts. ob.-ov., wavy—Fls. clustered, densely bearded.

## ORD. LIII.—POLEMONIACEÆ.

## Gen. I.

- i. Ls. pinn. ; lfts. obl.-lanc.—Pan. downy.

## ORD. LIV.—CONVOLVULACEÆ.

## Gen. I.

- i. St. cli.—Ls. sagitt. ; lobes acu.—Bracts small, distant from fls.  
 ii. St. cli.—Ls. sagitt. ; lobes trunc.—Bracts large, close to fls.  
 iii. St. prost.—Ls. reni., fleshy—Bracts ov., close to fls.

## Gen. II.

\* *Cor. inflated—Scales adpr.—Sta. included.*

- i. Cal. much shorter than cor. ; seg. obt.  
 ii. Cal. nearly as long as tube of cor. ; seg. acu.]  
 \* \* *Cor. cylind.—Scales spreading—Sta. exserted.*  
 iii. Cal. reddish, shorter than cor. tube.  
 iv. Cal. whitish, nearly as long as cor. tube.]

## ORD. LV.—SOLANACEÆ.

## Gen. I.

- i. Ls. obl., sess., sinu.—Fls. sess., axill., drooping, unilat.

## Gen. II.

- i. St. herbaceous with tubercled angles—Ls. ov., wavy—Berries glo., blk.  
 v. 2. *Ls. toothed—Hairs spreading—Berry scarlet.*  
 ii. St. shrubby, zigzag, cli.—Ls. cord., upper ones aur.—Berries ov., red.  
 v. 2. *St. prost., branched—Ls. fleshy, all cord.*

## Gen. III.

- i. St. herb—Ls. ent., ov.—Fls. sol., axill., lurid.

## ORD. LVI.—SCROPHULARIACEÆ.

| Botanical Name.                         | Common Name.                | Soil<br>or<br>Situation. | Colour | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|-----------------------------|--------------------------|--------|----------|----------------|-----------------------|
| <b>Gen. I. Verbascum, L.</b>            | <i>Mullein.</i>             |                          |        |          |                |                       |
| *<br>i. V. Thapsus, L. . . . .          | <i>great M. . . . .</i>     | Ch. banks                | Y.     | 2-4 ft.  | B.             | 6-8                   |
| ii. V. Lychnitis, L. . . . .            | <i>white M. . . . .</i>     | Ch. banks                | W.     | 2-3 ft.  | B.             | 7-8                   |
| iii. V. pulverulentum, Vill.<br>* *     | <i>yellow hoary M.</i>      | Ch. banks                | Y.     | 2-3 ft.  | B.             | 7-8                   |
| iv. V. nigrum, L. . . . .               | <i>dark M. . . . .</i>      | Ch. banks                | Y.     | 2-3 ft.  | P.             | 6-10                  |
| v. V. Blattaria, L. . . . .             | <i>Moth M. . . . .</i>      | Was. pl.!                | Y.     | 1-4 ft.  | B.             | 6-10                  |
| vi. V. virgatum, With. . .              | <i>large-flowered M.</i>    | Was. pl.!                | p Y.   | 1-4 ft.  | B.             | 7-8                   |
| <b>Gen. II. Veronica, L.</b>            | <i>Speedwell.</i>           |                          |        |          |                |                       |
| A.<br>*<br>i. V. spicata, L. . . . .    | <i>spiked S. . . . .</i>    | Ch. pas.!                | B.     | 6-12 in. | P.             | 7-8                   |
| v. 2. <i>hybrida, L. . . . .</i><br>* * | . . . . .                   | . . . . .                | . . .  | . . .    | . . .          | . . .                 |
| ii. V. serpyllifolia, L. . .            | <i>Thyme-leaved S.</i>      | Waysides                 | Li.    | 3-10 in. | P.             | 5-6                   |
| v. 2. <i>humifusa, Dicks. . .</i>       | . . . . .                   | Sc.mount.!               | . . .  | . . .    | . . .          | . . .                 |
| iii. V. alpina, L. . . . .              | <i>Alpine S. . . . .</i>    | Sc.mount.!               | d B.   | 3-10 in. | P.             | 7-8                   |
| iv. V. saxatilis, L. . . . .            | <i>blue rock S. . . . .</i> | Sc.mount.!               | B.     | 2-4 in.  | P.             | 7-8                   |
| B.<br>v. V. scutellata, L. . . . .      | <i>Marsh S. . . . .</i>     | Ditches .                | Pk.    | 6-12 in. | P.             | 7-8                   |
| vi. V. Anagallis, L. . . . .            | <i>Water S. . . . .</i>     | Marshes.                 | Li.    | 1-2 ft.  | P.             | 7-8                   |
| vii. V. Beccabunga, L. . .              | <i>Brooklime . . . .</i>    | Ditches .                | B.     | 1-2 ft.  | P.             | 5-9                   |
| viii. V. officinalis, L. . . .          | <i>common S. . . . .</i>    | Dry pl. .                | p B.   | 2-10 in. | P.             | 5-7                   |
| v. 2. <i>hirsuta, Hopk. . . .</i>       | . . . . .                   | !                        | . . .  | . . .    | . . .          | . . .                 |
| ix. V. montana, L. . . . .              | <i>Mountain S. . . .</i>    | Moi. wds.                | B.     | 1-2 ft.  | P.             | 5-7                   |
| x. V. Chamædrys, L. . . . .             | <i>Germander S. . . .</i>   | Banks . .                | B.     | 1-2 ft.  | P.             | 5-6                   |
| C.<br>xi. V. arvensis, L. . . . .       | <i>Wall S. . . . .</i>      | Dry pl. .                | p B.   | 4-12 in. | A.             | 4-7                   |
| xii. V. verna, L. . . . .               | <i>vernal S. . . . .</i>    | San. hths.<br>E. of E. ! | p B.   | 2-4 in.  | A.             | 4-5                   |
| xiii. V. triphyllos, L. . . .           | <i>blunt-fingered S.</i>    | San. hths.<br>E. of E. ! | B.     | 3-4 in.  | A.             | 4                     |
| D.<br>xiv. V. hederifolia, L. . . .     | <i>Ivy-leaved S. . . .</i>  | Banks . .                | p L.   | 6-18 in. | A.             | 3-8                   |
| xv. V. agrestis, L. . . . .             | <i>field S. . . . .</i>     | Was. pl. .               | B.     | 4-8 in.  | A.             | 4-9                   |
| xvi. V. polita, Fries. . . . .          | <i>gray field S. . . .</i>  | Was. pl. .               | B.     | 4-8 in.  | A.             | 4-9                   |
| v. 2. <i>grandiflora . . . . .</i>      | . . . . .                   | Fie. . . .               | . . .  | . . .    | . . .          | . . .                 |
| xvii. V. Buxbaumii, Pen. . .            | . . . . .                   | . . . . .                | B.     | 6-12 in. | A.             | 4-9                   |
| <b>Gen. III. Bartsia, L.</b>            | <i>Bartsia.</i>             |                          |        |          |                |                       |
| i. B. alpina, L. . . . .                | <i>Alpine B. . . . .</i>    | Alp. pas.!               | b Pu.  | 4-8 in.  | P.             | 6-8                   |
| ii. B. viscosa, L. . . . .              | <i>yellow B. . . . .</i>    | Mead. ! .                | Y.     | 6-18 in. | A.             | 6-10                  |
| iii. B. Odontites, Huds. . .            | <i>red B. . . . .</i>       | Was. pl. .               | R.     | 6-18 in. | A.             | 6-8                   |
| a. verna, Reich. . . . .                | . . . . .                   | . . . . .                | . . .  | . . .    | . . .          | . . .                 |
| b. serotina, Reich. . . . .             | . . . . .                   | . . . . .                | . . .  | . . .    | . . .          | . . .                 |
| c. rotundata, Ball . . . . .            | . . . . .                   | . . . . .                | . . .  | . . .    | . . .          | . . .                 |
| d. divergens, Ford. . . . .             | . . . . .                   | . . . . .                | . . .  | . . .    | . . .          | . . .                 |



## ORD. LVI.—SCROPHULARIACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

\* *Hairs of the filaments white.*

- i. Ls. decurr., woolly on both sides—Fls. in dense spikes.
- ii. St. ang.—Ls. not decurr., glab. above—Fls. in a narrow pan.
- iii. St. terete—Ls. not decurr., mealy above and below—Fls. in a pyram. pan.  
\* \* *Hairs of the filaments purple.*
- iv. Ls. not decurr., glab. above ; lower ones long-stalked—Fls. in a spicate pan.
- v. Ls. decurr., glab.—Fls. racemed—Pedunc. sol., longer than the cal.
- vi. Ls. decurr., gland.-hairy—Pedunc. 1-5 flowered, shorter than cal.

## Gen. II.

*A. Root perennial—Rac. term.*\* *Tube of coroll. long.*

- i. Ls. ov.-lanc. ; lower ls. with a cum. base—Spike dense.
- v. 2. *Larger—Lower ls. with a cord. base.*  
\* \* *Tube of cor. short.*
- ii. St. asc.—Ls. broadly ov.—Spike many-flowered—Caps. ob.-cord.—Sty. long.
- v. 2. *St. prost.—Rac. short.*
- iii. St. erect—Ls. ellip.-ov.—Spike few-flowered—Caps. ob.-ov.—Sty. short.
- iv. St. woody, decumb.—Ls. ellip.—Spike few-flowered—Caps. ov.—Sty. long.

*B. Root perennial—Rac. axill.*

- v. St. glab.—Ls. lin.-lanc.—Rac. alt.—Caps. of two orb. lobes.
- vi. St. erect, succ.—Ls. lan., serr., sess. acute—Rac. opp.—Caps. ellip., slightly notched.
- vii. St. procumb. at base, succ.—Ls. ellip., obt.—Rac. opp.—Caps. roundish, tumid, slightly notched
- viii. St. hairy—Ls. ellip.—Rac. alt., spic.—Caps. ob.-cord., deeply notched.
- v. 2. *Smaller—Ls. ov.-lanc.—Caps. ent.—(Scot.)*
- ix. St. hairy, diff.—Ls. ob.-cord., stalked serr.—Rac. alt., lax—Caps. orb., flat, notched, with crenulate margins.
- x. St. hairy on alt. sides—Ls. ov., sess., deeply serr.—Rac. opp.—Caps. ob.-cord.
- C. Root annual—Fls. spicate.*
- xi. Ls. cord., ov.—Rac. lax, many-flowered.
- xii. Ls. pinnfid.—Pedi. shorter than sep.—Seeds flat.

- xiii. Ls. digit.—Pedi. longer than sep.—Seeds concave.

*D. Root annual—Fls. axill., sol.*

- xiv. Ls. cord., 5-7 lobed—Fls. pale lilac.
- xv. Ls. cord., serr.—Sep. obl., obt.—Lower pet. white—Cap. of two turgid lobes.
- xvi. Ls. cord., serr.—Sep. ov., ac.—Pet. all blue—Cap. of two turgid lobes.
- v. 2. *Larger—Cor. large.*
- xvii. Ls. cord., serr.—Sep. lanc., ac.—Caps. of two divar. lobes compressed upwards and keeled.

## Gen. III.

- i. Ls. opp., cord., bluntly serr.—Fls. in a short, leafy spike.
- ii. Ls. lanc., serr.—Fls. axill., upper crowded.
- iii. Ls. lanc., remotely serr.—Fls. in unilat. rac.
- a. Ls. rounded at base—Bracts longer than fls.—Cal. teeth as long as tube.
- b. Ls. narrow at base—Bracts shorter than fls.—Cal. teeth as long as tube.
- c. Ls. broader at base—Bracts shorter than fls.—Cal. teeth half as long as tube.
- d. St. much branched—Branches widely spreading.

ORD. LVI.—SCROPHULARIACEÆ.—*cont.*

| Botanical Name.                       | Common Name.                    | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------------|---------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. IV. Euphrasia, L.</b>         | <i>Eyebright.</i>               |                          |         |          |                |                       |
| i. <i>E. officinalis, L.</i> . . . .  | <i>common E.</i> . . . .        | Heaths .                 | 7 W.    | 1-8 in.  | A.             | 5-9                   |
| v. 2. <i>gracilis, Fries.</i> . . . . | . . . . .                       | . . . .                  | . . . . | . . . .  | . . . .        | . . . .               |
| v. 3. <i>maritima</i> . . . . .       | . . . . .                       | . . . .                  | . . . . | . . . .  | . . . .        | . . . .               |
| <b>Gen. V Rhinanthus, L.</b>          | <i>Yellow-rattle.</i>           |                          |         |          |                |                       |
| i. <i>R. Crista-Galli, L.</i> . . . . | <i>common Y.</i> . . . .        | Dp. pas..                | Y.      | 6-18 in. | A.             | 5-7                   |
| ii. <i>R. major, Ehrh.</i> . . . .    | <i>bushy Y.</i> . . . .         | Corn fie.<br>N. of E.    | Y.      | 1-2 ft.  | A.             | 5-7                   |
| <b>Gen. VI. Melampyrum, L.</b>        | <i>Cow-wheat.</i>               |                          |         |          |                |                       |
| i. <i>M. cristatum, L.</i> . . . .    | <i>crested C.</i> . . . .       | Copses!<br>E. of E.      | Y.      | 6-24 in. | A.             | 7                     |
| ii. <i>M. arvense, L.</i> . . . .     | <i>purple C.</i> . . . .        | Corn fie.!               | Ro.     | 1-2 ft.  | A.             | 6-8                   |
| iii. <i>M. pratense, L.</i> . . . .   | <i>yellow C.</i> . . . .        | Copses .                 | Y.      | 6-18 in. | A.             | 5-8                   |
| v. 1. <i>vulgaris.</i> . . . .        | . . . . .                       | . . . .                  | . . . . | . . . .  | . . . .        | . . . .               |
| v. 2. <i>latifolium</i> . . . . .     | . . . . .                       | Ch. pl. !.               | . . . . | . . . .  | . . . .        | . . . .               |
| v. 3. <i>montanum</i> . . . . .       | . . . . .                       | Mount. .                 | . . . . | . . . .  | . . . .        | . . . .               |
| iv. <i>M. sylvaticum, L.</i> . . . .  | <i>Wood C.</i> . . . .          | Alp. wds.!               | Y.      | 6-24 in. | A.             | 7-8                   |
| <b>Gen. VII. Pedicularis, L.</b>      | <i>Louse-wort.</i>              |                          |         |          |                |                       |
| i. <i>P. palustris, L.</i> . . . .    | <i>Marsh L.</i> . . . .         | Marshes.                 | Cr.     | 6-18 in. | A.             | 5-9                   |
| ii. <i>P. sylvatica, L.</i> . . . .   | <i>Field L.</i> . . . .         | Moi. pas.                | Ro.     | 3-10 in. | P.             | 4-7                   |
| <b>Gen. VIII. Scrophularia, L.</b>    | <i>Fig-wort.</i>                |                          |         |          |                |                       |
| i. <i>S. nodosa, L.</i> . . . .       | <i>knotted F.</i> . . . .       | Moi. pl. .               | g Br.   | 1-3 ft.  | P.             | 7-9                   |
| v. 2. <i>Ehrharti, Stev.</i> . . . .  | . . . . .                       | . . . .                  | . . . . | . . . .  | . . . .        | . . . .               |
| ii. <i>S. aquatica, L.</i> . . . .    | <i>Water F.</i> . . . .         | Marshes.                 | g Br.   | 2-4 ft.  | P.             | 7-9                   |
| iii. <i>S. Scorodonia, L.</i> . . . . | <i>balm-leaved F.</i> . . . .   | Moi. pl.!                | Pu.     | 2-3 ft.  | P.             | 7-8                   |
| [iv. <i>S. vernalis, L.</i> . . . .   | <i>yellow F.</i> . . . .        | SW. of E.<br>Was. pl.!   | Y.      | 1-3 ft.  | P.             | 4-6                   |
| <b>Gen. IX. Digitalis, L.</b>         | <i>Fox-glove.</i>               |                          |         |          |                |                       |
| i. <i>D. purpurea, L.</i> . . . .     | <i>common F.</i> . . . .        | Woods .                  | Pu.     | 2-4 ft.  | P.             | 6-8                   |
| <b>Gen. X. Antirrhinum, L.</b>        | <i>Snap-Dragon.</i>             |                          |         |          |                |                       |
| i. <i>A. majus, L.</i> . . . .        | <i>great S.</i> . . . .         | Old walls                | var.    | 1-2 ft.  | P.             | 7-9                   |
| ii. <i>A. Orontium, L.</i> . . . .    | <i>lesser S.</i> . . . .        | Corn fie..               | roPu.   | 6-18 in. | B.             | 7-10                  |
| <b>Gen. XI. Linaria, Tourn.</b>       | <i>Toad-flax,<br/>Fluellen.</i> |                          |         |          |                |                       |
| *                                     |                                 |                          |         |          |                |                       |
| i. <i>L. cymbalaria, L.</i> . . . .   | <i>Ivy-leaved T.</i> . . . .    | Old walls                | p B.    | 6-24 in. | P.             | 5-9                   |
| ii. <i>L. spuria, Mill.</i> . . . .   | <i>round-leaved F.</i> . . . .  | Corn fie..               | Y.      | 4-18 in. | A.             | 7-10                  |
| iii. <i>L. Elatine, Mill.</i> . . . . | <i>sharp-leaved F.</i> . . . .  | Corn fie..               | Y.      | 6-24 in. | A.             | 7-10                  |
| *                                     |                                 |                          |         |          |                |                       |
| iv. <i>L. repens, Ait.</i> . . . .    | <i>creeping T.</i> . . . .      | Ch. banks!               | Li.     | 1-2 ft.  | P.             | 7-9                   |
| v. <i>L. vulgaris, Mill.</i> . . . .  | <i>yellow T.</i> . . . .        | Corn fie..               | Y.      | 1-2 ft.  | P.             | 7-10                  |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. IV.

- i. Ls. ov., deeply serr., sess.—Fls. in leafy spikes—Bracts broad at base.
- v. 2. *Slenderer*—Bracts narrowed at base.
- v. 3. *Caps. longer than cal.*—(*Shetland*).

## Gen. V.

- i. Ls. lanc., serr.—Fls. in lax spikes—Bracts green.
- ii. Ls. lin.-lanc., serr.—Fls. in crowded spikes—Bracts yellow.

## Gen. VI.

- i. Fls. in dense, imbric., four-sided spikes—Bracts cord., pect., coloured.
- ii. Fls. in lax, coni., spikes—Bracts broadly lanc., pinnfid., coloured.
- iii. Fls. axill., secund.—Cor. four times as long as cal.—Upper bracts ent., or touched at base, green.
- v. 1. *Ls. lin.-lanc., acum.*—Bracts all toothed; teeth long, slender.
- v. 2. *Ls. ov.-lanc., acum.*—Bracts all toothed; teeth short.
- v. 3. *Ls. lin.-lanc.; lower obt.*—Bracts ent.
- iv. Fls. axill., secund.—Cor. twice as long as cal.—Bracts all ent.

## Gen. VII.

- i. St. sol., erect—Cal. hairy.
- ii. St. branched, spreading—Cal. glab.

## Gen. VIII.

- i. St. four-angled—Ls. glab., ac.
- v. 2. *St. winged above*—Bracts leafy.
- ii. St. winged—Ls. glab., obt.
- iii. St. bluntly four-angled—Ls. downy, cord.-trian.—Cor. purplish.
- iv. St. winged—Ls. downy, cord.—Cor. yell.]

## Gen. IX.

- i. Ls. ov., lanc., downy, veiny—Fls. spic., drooping.

## Gen. X.

- i. Ls. lanc.—Rac. dense—Sep. ov., shorter than cor.]
- ii. Ls. lin.-lanc.—Rac. lax—Sep. lin., longer than cor.

## Gen. XI.

- \* *Stem trailing.*
- i. Ls. five-lobed, glab.—Fls. long-stalked, sol.
- ii. Ls. roundish-ov., downy—Spur curved.
- iii. Ls. ovate-hast., downy—Spur straight.
- \* \* *St. erect.*
- iv. Ls. lin., whorled—Fls. in a long, lax pan.—Cor. violet.
- v. Ls. lin., crowded—Fls. in a dense, imbric. rac.—Cor. yell.

ORD. LVI.—SCROPHULARIACEÆ.—*cont.*

| Botanical Name.                           | Common Name.              | Soil or Situation.  | Colour. | Growth.  | Duration. | Time of flowering |
|---|---------------------------|---------------------|---------|----------|-----------|-------------------|
| v. 2. <i>speciosa</i> , <i>Bromf.</i> . . |                           |                     |         |          |           |                   |
| vi. <i>L. Pelisseriana</i> , <i>Mill.</i> | <i>purple T.</i> . . . .  | St. Ouen's, Jersey. | Pu.     | 6-10 in. | A.        | 6-7               |
| vii. <i>L. minor</i> , <i>Desf.</i> . . . | <i>least T.</i> . . . .   | San. fie. .         | puY.    | 6-18 in. | A.        | 5-10              |
| Gen. XII. <i>Limosella</i> , <i>L.</i>    | <i>Mud-wort.</i>          |                     |         |          |           |                   |
| i. <i>L. aquatica</i> , <i>L.</i> . . .   | <i>common M.</i> . . . .  | Mud pl.!            | pkW.    | 1-2 in.  | A.        | 7-9               |
| Gen. XIII. <i>Sibthorpia</i> , <i>L.</i>  | <i>Money-wort.</i>        |                     |         |          |           |                   |
| i. <i>S. europæa</i> , <i>L.</i> . . .    | <i>Cornish M.</i> . . . . | Sh. banks S. of E.! | Pk.     | 6-12 in. | P.        | 7-8               |
| Gen. XIV. <i>Mimulus</i> , <i>L.</i>      |                           |                     |         |          |           |                   |
| [i. <i>M. luteus</i> , <i>L.</i> . . . .  | <i>yellow M.</i> . . . .  | Riv. banks          | Y.      | 6-24 in. | P.        | 7-9               |

## ORD. LVII.—OROBANCHACEÆ.

|  |                            |  |         |          |     |      |
|--|----------------------------|--|---------|----------|-----|------|
| Gen. I. <i>Orobanche</i> , <i>L.</i>       | <i>Broom-rape.</i>         |  |         |          |     |      |
| i. <i>O. Rapum</i> , <i>Thuil.</i> . .     | <i>great B.</i> . . . .    | Broom furze.                           | W.      | 1-1½ ft. | P.  | 5-7  |
| ii. <i>O. caryophyllacea</i> , <i>Sm.</i>  | <i>Clove B.</i> . . . .    | Galium Mollugo.                        | W.      | 6-12 in. | P.  | 5-7  |
| iii. <i>O. elatior</i> , <i>Sutton</i> . . | <i>tall B.</i> . . . .     | <i>Centaurea scabiosa.</i>             | W.      | 6-12 in. | P.  | 6-8  |
| ***  |                            |  |         |          |     |      |
| iv. <i>O. minor</i> , <i>L.</i> . . . .    | <i>least B.</i> . . . .    | . . . .                                | W.      | 1-2 ft.  | A.  | 6-10 |
| a. <i>minor</i> , <i>L.</i> . . . .        | . . . .                    | Clover .                               | . .     | . .      | . . | . .  |
| b. <i>amethystea</i> , <i>Thuil.</i> .     | . . . .                    | <i>Daucus maritimus</i> , S. of E.!    | . .     | . .      | . . | . .  |
| c. <i>Picridis</i> , <i>F. Schultz</i> .   | . . . .                    | <i>Picris hieracioides</i> !           | . .     | . .      | . . | . .  |
| d. <i>Hederæ</i> , <i>Duby</i> . . .       | . . . .                    | <i>Ivy</i> ! . .                       | . .     | . .      | . . | . .  |
| v. <i>O. rubra</i> , <i>Sm.</i> . . . .    | <i>red B.</i> . . . .      | <i>Thymus serpyllum</i> !              | dull R. | 4-8 in.  | P.  | 7-8  |
| ***  |                            |  |         |          |     |      |
| vi. <i>O. cærulea</i> , <i>Vill.</i> . .   | <i>purple B.</i> . . . .   | <i>Achillea millefolium</i> ! S. of E. | b Pu.   | 6-12 in. | P.  | 6-8  |
| vii. <i>O. arenaria</i> , <i>Bork.</i> . . | <i>Sand B.</i> . . . .     | Jersey!                                | b Pu.   | 6-12 in. | P.  | 6-8  |
| viii. <i>O. ramosa</i> , <i>L.</i> . . . . | <i>branched B.</i> . . . . | Hemp!                                  | . .     | 4-8 in.  | A.  | 8-9  |
| Gen. II. <i>Lathræa</i> , <i>L.</i>        | <i>Tooth-wort.</i>         |  |         |          |     |      |
| i. <i>L. squamaria</i> , <i>L.</i> . .     | <i>great T.</i> . . . .    | Woods .                                | brPu.   | 4-10 in. | P.  | 4-5  |

ORD. LVI.—SCROPHULARIACEÆ.—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES

v. 2. *Ls. broader*—*Fls. much larger.*

vi. Ann.—*Ls. lin., lower ones vertic.*—*Fls. in short, few-flowered rac.*—*Cor. pur.*

vii. *Ls. lin.-lanc., obt.*—*Fls. sol., axill.*

## Gen. XII.

i. Rhizome cr., rooting—*Ls. lan., spath., long-stalked.*

## Gen. XIII.

i. St. fili., hairy, prost.—*Ls. reni. 5-7 lobed*—*Fls. minute.*

## Gen. XIV.

i. St. erect, holl.—*Ls. obl., coarsely-toothed, upper sess.]*

## ORD. LVII.—OROBANCHACEÆ.

## Gen. I.

\* *Bracts one*—*Sepals bifid.*

i. Cor. campan.; upper lip nearly ent.: lower three-lobed, middle lobe much the longest.

ii. Cor. campan.; upper lip two-lobed; lower of three nearly equal, obtuse lobes.

iii. Cor. tubular, curved; upper lip of two inflexed lobes; lower of three nearly equal, acute lobes.

\* \* *Bracts one*—*Sep. entire.*

iv. Yellowish brown—*Sep. one or many-veined, ovate, with long slender points.*

a. *Sep. many-veined*—*Cor. tubular, slightly curved*—*Lobes of stig. (purple) just touching.*

b. *Sep. many-veined*—*Cor. much curved at base*—*Lobes of stig. (purple) divari.*

c. Very pale—*Sep. 1-3 veined*—*Cor. slightly curved at each end*—*Lobes of stig. (purple) nearly close.*

d. Rac. lax—*Sep. one-veined*—*Lobes of stig. (yellow) nearly entire.*

v. Dull red—*Sep. one-veined, lanc., subu., longer than the cor.*—*Lobes of lower lip nearly equal.*

\* \* \* *Bracts three.*

vi. St. simple—*Lobes of cor. acute*—*Anth. glab.*

vii. St. simple—*Lobes of cor. obt.*—*Anth. pilose.*

viii. St. branched—*Sep. 4.]*

## Gen. II.

i. Fls. drooping, unilat.—*Lower lip of cor. three-cleft.*

## ORD. LVIII.—VERBENACEÆ.

| Botanical Name.                    | Common Name.           | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|------------------------------------|------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. I. Verbena, L.</b>         | <i>Vervain.</i>        |                          |         |         |                |                       |
| i. <i>V. officinalis, L.</i> . . . | <i>common V.</i> . . . | Dry pl. .                | Li.     | 1-2 ft. | P.             | 7-9                   |

## ORD. LIX.—LABIATÆ.

|   |                            |            |           |           |           |           |
|---|----------------------------|------------|-----------|-----------|-----------|-----------|
| <b>Gen. I. Salvia, L.</b>                       | <i>Sage, Clary.</i>        |            |           |           |           |           |
| i. <i>S. Verbenaca, L.</i> . . .                | <i>wild S.</i> . . . . .   | Ch. downs  | δ Pu.     | 1-2 ft.   | P.        | 5-8       |
| ii. <i>S. pratensis, L.</i> . . .               | <i>Meadow C.</i> . . . .   | Dry fie.!  | B.        | 2-5 ft.   | P.        | 6-8       |
| <b>Gen. II. Lycopus, L.</b>                     | <i>Gipsy-wort.</i>         |            |           |           |           |           |
| i. <i>L. Europæus, L.</i> . . .                 | <i>common G.</i> . . . .   | Ditches .  | W.        | 1-3 ft.   | P.        | 6-9       |
| <b>Gen. III. Mentha, L.</b>                     | <i>Mint.</i>               |            |           |           |           |           |
| A.  |                            |            |           |           |           |           |
| *   |                            |            |           |           |           |           |
| i. <i>M. rotundifolia, L.</i> . .               | <i>round-leaved M.</i>     | Wet pl. .  | Li.       | 2-3 ft.   | P.        | 8-9       |
| v. 2. <i>alopecuroides, Hull.</i>               |                            |            |           |           |           |           |
| ii. <i>M. sylvestris, L.</i> . . .              | <i>Horse M.</i> . . . . .  | Wet pl. .  | Li.       | 2-3 ft.   | P.        | 8-9       |
| v. 2. <i>nemorosa, Willd.</i> . .               | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| v. 3. <i>mollissima, Borkh.</i>                 | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| [iii. <i>M. viridis, L.</i> . . . .             | <i>Spear M.</i> . . . . .  | Marshes !  | Li.       | 2-3 ft.   | P.        | 8-9       |
| **  |                            |            |           |           |           |           |
| iv. <i>M. piperita, L.</i> . . . .              | <i>Pepper M.</i> . . . . . | Dp. pl. .  | Li.       | 6-18 in.  | P.        | 8-9       |
| a. <i>officinalis, Hull</i> . . . .             | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| b. <i>vulgaris, Sole</i> . . . . .              | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| v. <i>M. aquatica, L.</i> . . . .               | <i>Water M.</i> . . . . .  | Marshes.   | Li.       | 1-4 ft.   | P.        | 8-9       |
| a. <i>pubescens, Willd.</i> . . . .             | . . . . .                  | S. of E.!  | . . . . . | . . . . . | . . . . . | . . . . . |
| b. <i>hircina, Hull</i> . . . . .               | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| c. <i>hirsuta, L.</i> . . . . .                 | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| d. <i>subglabra, Baker</i> . . . .              | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| e. <i>citrata, Ehrh.</i> . . . . .              | <i>Bergamot M.</i> . . . . | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| B.  |                            |            |           |           |           |           |
| vi. <i>M. sativa, L.</i> . . . . .              | <i>Marsh whorled M.</i>    | Wet. pl. . | Li.       | 2-5 ft.   | P.        | 7-8       |
| a. <i>genuina, Sy.</i> . . . . .                | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| v. 2. <i>paludosa, Sol.</i> . . . .             | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| v. 3. <i>subglabra, Baker</i> . . .             | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| b. <i>rubra, Sm.</i> . . . . .                  | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| c. <i>gracilis, Sm.</i> . . . . .               | . . . . .                  | Wilts.!    | . . . . . | . . . . . | . . . . . | . . . . . |
| v. 2. <i>cardiaca, Baker</i> . . . .            | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| d. <i>pratensis, Sole</i> . . . . .             | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| e. <i>gentilis, L.</i> . . . . .                | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |
| v. 2. <i>Wirtgeniana,</i><br><i>F. Schultz.</i> | . . . . .                  | . . . . .  | . . . . . | . . . . . | . . . . . | . . . . . |

## ORD. LVIII.—VERBENACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. St. erect, four-angled—Ls. opp., trifid and ent.—Fls. in long spikes.

## ORD. LIX.—LABIATÆ.

## Gen. I.

- i. Upper ls. broad, cord.—Cor. narrow, about as long as cal.  
 ii. Upper ls. ov.-lanc., ac.—Cor. thrice as long as cal.

## Gen. II.

- i. Ls. deeply serr. or pinnfid., wrinkled—Fls. in dense whorls.

## Gen. III.

*A. Throat of calyx naked—Fls. in term. heads.*

\* *Ls. sess. or only lower ls. stalked.*

- i. Ls. ellip., ov., serr., wrinkled, shaggy beneath—Spikes interrupted—Bracts ov.-acum.  
 v. 2. *Spikes short, stout—Bracts narrower.*  
 ii. Ls. ov.-lanc., serr., ac., silky beneath—Spikes slender, continuous—Bracts subu.  
 v. 2. *Spikes stouter—Ls. broadly obl., tomentose beneath.*  
 v. 3. *Ls. broadly ov.-cord. at base, felted beneath.*  
 iii. Ls. glab., lanc., ac.—Spikes cylind., interrupted—Bracts subul.—Smell very pungent.]  
 \* \* *Ls. stalked.*  
 iv. Glab.—Ls. ov.-lanc., upper smaller—Spikes lax, interrupted below.  
 a. Ls. rounded at base—Spikes slender.  
 b. Ls. sub-cord. at base—Spikes shorter.  
 v. Hairy (mostly)—Ls. ov., serr.; upper ls., bracteiform, shorter than fls.—Spikes axill. and term., dense.  
 a. Ls. rounded at base, pubesc. above, woolly beneath.  
 b. Ls. rounded at base, glab. above, hairy beneath.  
 c. Ls. sub-cord., hairy on both sides.  
 d. Ls. sub-cord., glab., except on the nerves beneath.  
 e. Whole plant glab.!

*B. Throat of calyx naked—Fls. in axill. whorls.*

- vi. Ls. ellip., serr.; upper ls. smaller—Cal. teeth lanc., ac.  
 a. Cor. and cal. hairy—Whorls separate—Bracts leafy.  
 v. 2. *Upper whorls continuous—Bracts smaller.*  
 v. 3. *Sub-glab.*  
 b. Cor. glab.; cal. hairy—Nerves of ls. purple—Ls. glab.  
 c. Cor. glab.; cal. ciliate—Ls. glab.—Whorls all separate—Bracts 5-6 times as long as whorls.  
 v. 2. *Bracts 2-4 times as long as whorls.*  
 d. Ls. nearly sess., drooping, hairy above, and hairy on the nerves only beneath—Whorls distant, sub-glob.—(New Forest!)  
 e. Ls. all nearly of one size, hairy above, and on the few nerves beneath—Cor. glab., cal. teeth densely hairy—St. hairy.  
 v. 2. *St. almost glab.—Cal. teeth sparingly hairy.*

| Botanical Name.                    | Common Name.         | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|------------------------------------|----------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| v. 3. <i>Pauliana</i> , F. Schultz | .                    | .                        | .         | .         | .              | .                     |
| vii. M. arvensis, L. . . .         | Corn M. . . .        | Corn fie..               | Li.       | 1-2 ft.   | P.             | 8-9                   |
| a. genuina . . . . .               | . . . . .            | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. nummularia, Schreb. .           | . . . . .            | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| c. agrestis, Sole . . . .          | . . . . .            | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| d. præcox, Sole . . . . .          | . . . . .            | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| e. Allionii, Bor. . . . .          | . . . . .            | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| f. parietarifolia, Beck. .         | . . . . .            | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| C.                                 |                      |                          |           |           |                |                       |
| viii. M. Pulegium, L. . .          | Penny-royal . . .    | Dp. hths.                | Li.       | 2-10 in.  | P.             | 8-9                   |
| Gen. IV. Thymus, L.                | Thyme.               |                          |           |           |                |                       |
| i. T. serpyllum, L. . . .          | wild T. . . . .      | Dry hths.                | Pu.       | 2-8 in.   | P.             | 6-8                   |
| ii. T. Chamædrys, Fr. . .          | . . . . .            | Heaths .                 | Pu.       | 2-8 in.   | P.             | 6-8                   |
| Gen. V. Origanum, L.               | Marjoram.            |                          |           |           |                |                       |
| i. O vulgare, L. . . . .           | common M. . . .      | Dry hills                | Pu.       | 1-2 ft.   | P.             | 7-9                   |
| Gen. VI. Calamintha,               | Calamint, Basil      |                          |           |           |                |                       |
| Mœnch.                             | Thyme.               |                          |           |           |                |                       |
| *                                  |                      |                          |           |           |                |                       |
| i. C. Acinos, Clairv. . .          | common B. . . .      | Corn fie.                | δ Pu.     | 6-8 in.   | A.             | 7                     |
| ii. C. Clinopodium, Sp. .          | wild B. . . . .      | Dry hills                | Pu.       | 12-18 in. | P.             | 7-9                   |
| **                                 |                      |                          |           |           |                |                       |
| iii. C. Nepeta, Clairv. . .        | lesser C. . . . .    | Was. pl..                | . .       | 1-2 ft.   | P.             | 7-8                   |
| iv. C. officinalis, Auct. .        | common C. . . .      | Was. pl..                | . .       | 1-2 ft.   | P.             | 7-8                   |
| a. menthifolia, Host. . .          | . . . . .            | . . . . .                | . .       | . . . . . | . . . . .      | . . . . .             |
| v. 2. Briggsii, Sy. . . . .        | . . . . .            | . . . . .                | . .       | . . . . . | . . . . .      | . . . . .             |
| b. sylvatica, Bromf. . .           | . . . . .            | I. of W. .               | . .       | . . . . . | . . . . .      | . . . . .             |
| Gen. VII. Melissa, L.              | Balm.                |                          |           |           |                |                       |
| [i. M. officinalis, L. . . .       | common B. . . .      | S. of E.!                | W.        | 1-3 ft.   | P.             | 7-8                   |
| Gen. VIII. Melittis, L.            | Bastard-Balm.        |                          |           |           |                |                       |
| i. M. Melissophyllum, L.           | Bastard-Balm. .      | Copses !                 | puW.      | 1-2 ft.   | P.             | 5-6                   |
| Gen. IX. Teucrium, L.              | Germander.           |                          |           |           |                |                       |
| i. T. Scordonia, L. . . .          | Wood G. . . . .      | Heaths .                 | y W.      | 1-2 ft.   | P.             | 7-8                   |
| ii. T. Scordium, L. . . .          | Water G. . . . .     | Wet mead !               | Pu.       | 4-10 in.  | P.             | 7-8                   |
| v. 2. Scordioides, Bab. . .        | . . . . .            | . . . . .                | . .       | . . . . . | . . . . .      | . . . . .             |
| iii. T. Botrys, L. . . . .         | Cut-leaved annual G. | Box Hill !               | Ro.       | 4-8 in.   | B.             | 8                     |
| iv. T. Chamædrys, L. . . .         | Wall G. . . . .      | Old walls !              | Ro.       | 6-18 in.  | P.             | 7-9                   |
| Gen. X. Ajuga, L.                  | Bugle.               |                          |           |           |                |                       |
| 1. A. reptans, L. . . . .          | common B. . . .      | Moi. wds.                | puB.      | 6-12 in.  | P.             | 5-6                   |
| δ. pseudo-alpina . . . .           | . . . . .            | . . . . .                | . .       | . . . . . | . . . . .      | . . . . .             |



## CHARACTERISTICS OF SPECIES AND VARIETIES.

v. 3. *St. almost glab.—Cal. teeth densely hairy.*

vii. Ls. obl.-lanc., upper same size—Cal. teeth triang., as broad as long.

a. St. short, very hairy.

b. St. long, not so hairy—Ls. and cal. sparingly hairy.

c. St. long, hairy—Ls. cord., wrinkled—Cal. very hairy.

d. St. thick, hairy—Ls. slightly hairy—Cal. teeth longer.

e. St. tall, hairy above, glab. below—Cal. teeth very short.

f. St. long, nearly glab.—Ls. glab.

(Many other intermediate varieties occur.)

C. Throat of cal. hairy.

viii. St. prost.—Ls. ellip., obt.—Fls. in distant whorls.

## Gen. IV.

i. St. prost. ; flowering sts. erect—Ls. obl.—Upper lip of cor. obl.

ii. Sts. all asc.—Ls. ov.—Upper lip of cor. broad, short.

## Gen. V.

i. Ls. ov., obt.—Fls. panicked ; bracts ov.

## Gen. VI.

\* *Whorls simp.*

i. Whorls 5-6 flowered—Cal. gibbous at base.

ii. Whorls dense, many-flowered—Cal. equal at base.

\* \* *Whorls compound in forked cymes.*

iii. Hairs on mouth of cal. prominent—Ls. shortly stalked.

iv. Hairs on mouth of cal. included.

a. Teeth of upper lip of cal. straight—Seg. of lower lip of cor. distant, centre one longest.

v. 2. *Larger—Pedunc. of lower whorls longer than the stalk of central fl.*

b. Teeth of upper lip of cal. reflexed—Seg. of lower lip of cor. overlapping, equal.

## Gen. VII.

i. Ls. ov., ac., serr.—Fls. in secund., axill., whorls.]

## Gen. VIII.

i. Ls. obl., ov.—Cor. large (1-1½ in. long).

## Gen. IX.

i. Ls. stalked, ov.-cord., wrinkled—Fls. unilat. in lat. and term. rac.

ii. Ls. sess., obl., all similar—Fls. in axill. whorls.

v. 2. *Ls. cord., amplex.*

iii. Ls. pinnfid. ; seg. obl. or cut—Fls. in axill. whorls.

iv. Ls. stalked, ov., wedge-shaped at base—Fls. in axill. whorls.

## Gen. X.

i. Glab.—St. with creeping scions—Fls. whorled, in a loose spike.

b. A form without creeping scions.

## ORD. LIX.—LABIATÆ—cont.

| Botanical Name.                                     | Common Name.   | Soil<br>or<br>Situation. | Colour.      | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|--------------|-----------|----------------|-----------------------|
| ii. <i>A. pyramidalis</i> , <i>L.</i> . . .         | <i>pyramidal B.</i> . . .                            | Alp. pas.!               | bu B.        | 6-12 in.  | P.             | 5-7                   |
| iii. <i>A. Chamæpitys</i> , <i>Schreb</i>           | <i>yellow B., or<br/>Ground-pine.</i>                | Ch. fie.!                | Y.           | 3-6 in.   | P.             | 5-8                   |
| <b>Gen. XI. Ballota, <i>L.</i></b>                  | <i>Horehound.</i>                                    |                          |              |           |                |                       |
| i. <i>B. nigra</i> , <i>L.</i> . . . . .            | <i>black H.</i> . . . . .                            | Was. pl..                | Pu.          | 2-3 ft.   | P.             | 6-10                  |
| v. 2. <i>ruderalis</i> , <i>Fries.</i> . . .        | . . . . .  | . . . . .                | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| <b>Gen. XII. Leonurus, <i>L.</i></b>                | <i>Mother-wort.</i>                                  |                          |              |           |                |                       |
| [i. <i>L. cardiaca</i> , <i>L.</i> . . . .          | <i>common M.</i> . . . .                             | Was. pl.!                | r W.         | 2-3 ft.   | P.             | 7-9                   |
| <b>Gen. XIII. Lamium, <i>L.</i></b>                 | <i>Dead-nettle.</i>                                  |                          |              |           |                |                       |
| i. <i>L. Galeobdolon</i> ,<br><i>Crantz.</i><br>* * | <i>yellow Weasel-<br/>snout, or Arch-<br/>angel.</i> | Thick. .                 | Y.           | 6-18 in.  | P.             | 5-6                   |
| A.  |  |                          |              |           |                |                       |
| ii. <i>L. album</i> , <i>L.</i> . . . . .           | <i>white D.</i> . . . . .                            | Was. pl..                | W.           | 6-18 in.  | P.             | 5-9                   |
| iii. <i>L. maculatum</i> , <i>L.</i> . . .          | . . . . .  | Was. pl.!<br>N. of E.    | Pu.          | 6-18 in.  | P.             | 5-9                   |
| B.  |  |                          |              |           |                |                       |
| iv. <i>L. amplexicaule</i> , <i>L.</i> . .          | <i>Henbit D.</i> . . . . .                           | San. fie. .              | Ro.          | 4-10 in.  | A.             | 5-8                   |
| v. 2. <i>intermedium</i> , <i>Fr.</i> . . .         | . . . . .  | . . . . .                | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| v. <i>L. purpureum</i> , <i>L.</i> . . . .          | <i>red D.</i> . . . . .                              | Was. pl..                | roPu.        | 6-18 in.  | A.             | 4-10                  |
| a. <i>genuinum</i> . . . . .                        | . . . . .  | . . . . .                | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| b. <i>decipiens</i> , <i>Son.</i> . . . .           | . . . . .  | . . . . .                | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| vi. <i>L. incisum</i> , <i>Willd.</i> . . .         | <i>cut-leaved D.</i> . . .                           | Was. pl..                | roPu.        | 6-8 in.   | A.             | 4-10                  |
| <b>Gen. XIV. Galeopsis, <i>L.</i></b>               | <i>Hemp-nettle.</i>                                  |                          |              |           |                |                       |
| i. <i>G. Ladanum</i> , <i>L.</i> . . . . .          | <i>red H.</i> . . . . .                              | Ch. fie. .               | Ro.          | 10-12 in. | A.             | 7-10                  |
| b. <i>canescens</i> . . . . .                       | . . . . .  | Shingly<br>shores.       | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| c. <i>intermedia</i> , <i>Vill.</i> . . . .         | . . . . .  | Moray. .                 | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| ii. <i>G. ochroleuca</i> , <i>Lam.</i> . .          | <i>downy H.</i> . . . . .                            | San. fie.!               | Y.           | 10-12 in. | A.             | 7-10                  |
| * *   |  |                          |              |           |                |                       |
| iii. <i>G. Tetrahit</i> , <i>L.</i> . . . .         | <i>common H.</i> . . . .                             | Corn fie..               | Pu.<br>or W. | 1-2 ft.   | A.             | 7-9                   |
| v. 2. <i>bifida</i> , <i>Boeun.</i> . . . .         | . . . . .  | . . . . .                | . . . . .    | . . . . . | . . . . .      | . . . . .             |
| iv. <i>G. versicolor</i> , <i>Curt.</i> . .         | <i>large-flowered H.</i>                             | Corn fie.!               | Y.           | 2-3 ft.   | A.             | 7-9                   |
| <b>Gen. XV. Stachys, <i>L.</i></b>                  | <i>Woundwort,<br/>Betony.</i>                        |                          |              |           |                |                       |
| i. <i>S. Betonica</i> , <i>Benth.</i> . . .         | <i>Wood B.</i> . . . . .                             | Thick. .                 | Pu           | 1-2 t.    | P.             | 6-8                   |

ORD. LIX.—LABIATÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- ii. Hairy—Scions none—Fls. whorled in a compact, pyram. spike.
- iii. Ls. trifid; segm. lin.—Fls. sol., axill.

## Gen. XI.

- i. Ls. ov., serr.—Fls. whorled; bracts lin.—Teeth of cal. ov., suddenly acum.
- v. 2. Teeth of cal. lanc., gradually acum.—(*St. Vincent's Rocks.*)

## Gen. XII.

- i. Lower ls. palm, five cleft; upper ent.—Fls. in crowded whorls; upper lip of cor. hairy.]

## Gen. XIII.

\* Lobes of lower lip of cor. equal.

- i. Ls. ov., ac., coarsely serr.—Fls. whorled, yell.

\* \* Lower lip of cor. with one ob.-cord. lobe, with one or two teeth at base.

A. Perenn.—Tube of cor. curved.

- ii. Fls. white—Hairs in tube of cor. oblique.
- iii. Fls. purple—Ls. spotted with white—Hairs in tube of cor. transverse.

B. Annual—Tube of cor. straight.

- iv. Upper ls. sess., orb., wrinkled—Cor. long, slender—Cal. teeth connivent in fr., as long as cal. tube.
- v. 2. Habit of amplexicaule, but cal. teeth always spreading, and much longer than tube.
- v. Ls. all stalked, cord., cren.—Tube of cor. longer than cal.; cal. teeth spreading.
- a. Ls. and bracts slightly crenate.
- b. Ls. and bracts deeply crenate.
- vi. Ls. stalked, cord., deeply inciso.-serr.—Tube of cor. shorter than cal.

## Gen. XIV.

\* Softly hairy—St. not swollen at joints.

- i. Ls. lanc., downy—Cor. (Rose), its upper lip slightly notched.
- b. Very pubesc.—Ls. lin.-lanc., hairs on cal. spreading.

c. Ls. ov.-lanc., serr.—Whorls all sep.—Tube of cor. shorter.

- ii. Cor. (yell.) much longer than cal.; its upper lip deeply notched.

\* \* Hispid—St. thickened at joints.

- iii. Cor. (Pu. or W.), its tube as long as cal.—Teeth of cal. twice as long as its tube.

- v. 2. Cor. half as long as cal.; its lower lip notched.

- iv. Cor. (Yell.) twice as long as cal.—Teeth of cal. shorter than its tube.

## Gen. XV.

- i. Lower ls. cord.-obl., long-stalked; upper ones few, lin., sess.—Fls. in dense, term. spikes.

ORD. LIX.—LABIATÆ—*cont.*

| Botanical Name.                                | Common Name.             | Soil<br>or<br>Situation. | Colour    | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|--------------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| ii. <i>S. palustris</i> , <i>L.</i> . . .      | <i>Marsh W.</i> . . .    | Wet pl. .                | Pu.       | 1-3 ft.   | P.             | 7-8                   |
| v. 2. <i>ambigua</i> , <i>Sm.</i> . . .        | . . .                    | . . .                    | . . .     | . . .     | . . .          | . . .                 |
| iii. <i>S. sylvatica</i> , <i>L.</i> . . .     | <i>Hedge W.</i> . . .    | Sh. pl. .                | Pu.       | 1-3 ft.   | P.             | 7-8                   |
| iv. <i>S. germanica</i> , <i>L.</i> . . .      | <i>downy W.</i> . . .    | Ch. fie.! .              | roPu.     | 1-3 ft.   | B.             | 7-8                   |
| v. <i>S. arvensis</i> , <i>L.</i> . . .        | <i>Corn W.</i> . . .     | Corn fie..               | p Pu.     | 6-18 in.  | A.             | 4-11                  |
| <b>Gen. XVI. <i>Nepeta</i>, <i>L.</i></b>      |                          |                          |           |           |                |                       |
| i. <i>N. Glechoma</i> , <i>Benth.</i>          | <i>Ground-ivy</i> . . .  | Was. pl..                | B.        | Cr.       | P.             | 3-5                   |
| a. <i>hederacea</i> . . . . .                  | . . . . .                | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. <i>parviflora</i> . . . . .                 | . . . . .                | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| c. <i>hirsuta</i> . . . . .                    | . . . . .                | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| ii. <i>N. Cataria</i> , <i>L.</i> . . . .      | <i>Cat-mint.</i> . . . . | Was. pl.!                | W.        | 2-3 ft.   | P.             | 7-9                   |
| <b>Gen. XVII. <i>Marrubium</i>, <i>L.</i></b>  |                          |                          |           |           |                |                       |
| i. <i>M. vulgare</i> , <i>L.</i> . . . .       | <i>common W.</i> . . . . | Was. pl.!                | W.        | 12-18 in. | P.             | 8-9                   |
| <b>Gen. XVIII. <i>Prunella</i>, <i>L.</i></b>  |                          |                          |           |           |                |                       |
| i. <i>P. vulgaris</i> , <i>L.</i> . . . .      | <i>common S.</i> . . . . | Moi. pas.                | Vi.       | 4-10 in.  | P.             | 7-8                   |
| <b>Gen. XIX. <i>Scutellaria</i>, <i>L.</i></b> |                          |                          |           |           |                |                       |
| i. <i>S. galericulata</i> , <i>L.</i> . . .    | <i>common S.</i> . . . . | Riv. banks               | B.        | 8-12 in.  | P.             | 7-8                   |
| ii. <i>S. minor</i> , <i>L.</i> . . . .        | <i>lesser S.</i> . . . . | Moi. hths.               | Pk.       | 4-6 in.   | P.             | 7-10                  |

## ORD. LX.—BORAGINACEÆ.

|  |                           |            |       |           |       |       |
|--|---------------------------|------------|-------|-----------|-------|-------|
| <b>Gen. I. <i>Myosotis</i>, <i>L.</i></b>      |                           |            |       |           |       |       |
| * <i>Scorpion Grass.</i>                       |                           |            |       |           |       |       |
| i. <i>M. palustris</i> , <i>With.</i> .        | <i>Water S., or</i>       | Wet pl. .  | B.    | 12-18 in. | P.    | 6-8   |
| . . . . . <i>Forget-me-not.</i>                |                           |            |       |           |       |       |
| v. 2. <i>strigulosa</i> . . . . .              | . . . . .                 | Wet pl. .  | B.    | 4-15 in.  | P.    | 6-8   |
| ii. <i>M. repens</i> , <i>Don.</i> . . .       | <i>creeping Water S.</i>  | Wet pl. .  | B.    | 6-18 in.  | P.    | 6-8   |
| iii. <i>M. cæspitosa</i> , <i>Schultz.</i>     | <i>tufted Water S.</i> .  | Wet pl. .  | B.    | 6-18 in.  | P.    | 6-8   |
| * * . . . . .                                  |                           |            |       |           |       |       |
| A.   |                           |            |       |           |       |       |
| iv. <i>M. alpestris</i> , <i>Schmidt.</i>      | <i>Rock S.</i> . . . . .  | Sc. mount. | B.    | 5-10 in.  | P.    | 7-8   |
| v. <i>M. sylvatica</i> , <i>Ehrh.</i> .        | <i>Wood S.</i> . . . . .  | Dry woods  | B.    | 1-2 ft.   | P.    | 6-8   |
| vi. <i>M. arvensis</i> , <i>Hoffm.</i> .       | <i>Field S.</i> . . . . . | Was. pl..  | B.    | 6-18 in.  | A.    | 6-8   |
| v. 2. <i>umbrosa</i> , <i>Bab.</i> . . .       | . . . . .                 | Sh. pl. .  | . . . | . . .     | . . . | . . . |
| B. . . . .                                     |                           |            |       |           |       |       |
| vii. <i>M. collina</i> , <i>Hoffm.</i> .       | <i>early Field S.</i> . . | Dry banks  | B.    | 3-10 in.  | A.    | 4-5   |
| viii. <i>M. versicolor</i> , <i>Lehm.</i>      | <i>yellow and blue S.</i> | Dp. mead.  | y B.  | 3-10 in.  | A.    | 4-6   |
| <b>Gen. II. <i>Lithospermum</i>, <i>L.</i></b> |                           |            |       |           |       |       |
| <i>Gromwell.</i>                               |                           |            |       |           |       |       |
| i. <i>L. officinale</i> , <i>L.</i> . . .      | <i>common G.</i> . . . .  | Was. pl. . | p Y.  | 12-18 in. | P.    | 6-7   |

ORD. LIX.—LABIATÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- ii. St. hollow—Ls. lin.-lanc., cord., sess. ; lower very shortly stalked.
- v. 2. *Ls. shortly stalked (a hybrid).*
- iii. St. solid—Ls. all stalked, ov.-cord., acum.; upper ones lin., ent.
- iv. Densely silky—Lower ls. obl.-ov., cord., wrinkled, stalked ; upper lanc., sess.
- v. St. weak, decumb.—Ls. cord.-ov., obt.—Cor. scarcely longer than cal.

## Gen. XVI.

- i. St. procumb.—Ls. reni., ent., deeply cren.—Whorls 3-4 flowered.
- a. Glab.—Cal. half as long as cor. tube.
- b. Glab.—Cal. as long as cor. tube.
- c. Hairy—Cal. as long as cor. tube.
- ii. St. erect—Ls. ov.-cord., serr., pubes. beneath—Whorls dense.

## Gen. XVII.

- i. St. erect, hoary—Ls. ov., cren., woolly, wrinkled—Whorls dense.

## Gen. XVIII.

- i. St. erect—Ls. ov.-obl.—Whorls forming a dense spike, with two ls. at base.

## Gen. XIX.

- i. Fls. blue—Ls. all obl.-lanc., cord., cren.
- ii. Fls. pink—Lower ls. broadly ov. ; upper lanc. ent.

## ORD. LX.—BORAGINACEÆ.

## Gen. I.

\* *Hairs of cal. straight, adpr.*

- i. Cor. large—Cal. divided to one-third ; its teeth short, triang.—Hairs of st. spreading.
- v. 2. *Fls. smaller—St. more erect, with adpr. hairs.*
- ii. Cor. large—Cal. divided to half ; its teeth lanc.—Hairs of st. spreading.
- iii. Cor. scarcely longer than cal.—Cal. teeth lanc.—Hairs of st. adpr.
- \* \* *Hairs of cal. hooked, spreading.*
- A. Pedi. longer than cal.*
- iv. Fls. large—Rad. ls. pointed, long-stalked—Cal. deeply five cleft, atten. at base—Sty. half as long as cal.
- v. Fls. large—Rad. ls. blunt, long-stalked—Cal. deeply five cleft, obt. at base—Sty. nearly as long as cal.
- vi. Fls. small—Ls. ob.-ov., obt.—Cal. five cleft to middle—Sty. very short.
- v. 2. *Fls. larger.*

*B. Pedi. shorter than cal.*

- vii. Cor. bright blue ; tube short—Cal. of fr. open, ventri.
- viii. Cor. yell., changing to dull blue, tube long—Cal. of fr. closed, obl.

## Gen. II.

- i. St. erect—Cor. as long as cal., with small scales in throat—Ach. polished.

ORD. LX.—BORAGINACEÆ—*cont.*

| Botanical Name.                                 | Common Name.                              | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|-----------|-----------|----------------|-----------------------|
| ii. <i>L. arvense</i> , <i>L.</i> . . . .       | <i>Corn G., or Bas-<br/>tard Alkanet.</i> | Was. pl. .               | g W.      | 10-16 in. | A.             | 5-6                   |
| iii. <i>L. purpureo-cœruleum</i> ,<br><i>L.</i> | <i>purple G.</i> . . . .                  | Thick.! .                | B.        | 1-2 ft.   | P.             | 6-7                   |
| Gen. III. <i>Mertensia</i> , <i>Roth.</i>       | <i>Smooth Gromwell.</i>                   |                          |           |           |                |                       |
| i. <i>M. maritima</i> , <i>Don.</i> . . .       | <i>Sea-side S.</i> . . . .                | Sea sh.! .               | δ Pu.     | 1-2 ft.   | P.             | 5-6                   |
| Gen. IV. <i>Symphytum</i> , <i>L.</i>           | <i>Comfrey.</i>                           |                          |           |           |                |                       |
| i. <i>S. officinale</i> , <i>L.</i> . . . .     | <i>common C.</i> . . . .                  | Riv. banks               | γ W.      | 2-3 ft.   | P.             | 5-6                   |
| v. 2. <i>patens</i> , <i>Sibth.</i> . . . .     | . . . . .                                 | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| ii. <i>S. tuberosum</i> , <i>L.</i> . . .       | <i>tuberous C.</i> . . . .                | Sha. wds.<br>N. of E.    | γ W.      | 1-2 ft.   | P.             | 5-6                   |
| Gen. V. <i>Borago</i> , <i>L.</i>               | <i>Borage.</i>                            |                          |           |           |                |                       |
| i. <i>B. officinalis</i> , <i>L.</i> . . . .    | <i>common B.</i> . . . .                  | Was. pl..                | B.        | 1-2 ft.   | B.             | 6-7                   |
| Gen. VI. <i>Lycopsis</i> , <i>L.</i>            | <i>Bugloss.</i>                           |                          |           |           |                |                       |
| i. <i>L. arvensis</i> , <i>L.</i> . . . .       | <i>small B.</i> . . . .                   | Corn fie.                | B.        | 6-18 in.  | A.             | 6-7                   |
| Gen. VII. <i>Anchusa</i> , <i>L.</i>            | <i>Alkanet.</i>                           |                          |           |           |                |                       |
| [i. <i>A. officinalis</i> , <i>L.</i> . . . .   | <i>common A.</i> . . . .                  | Was. pl.! .              | Pu.       | 1-2 ft.   | P.             | 6-7                   |
| [ii. <i>A. sempervirens</i> , <i>L.</i> . .     | <i>evergreen A.</i> . . .                 | Was. pl.! .              | B.        | 1-2 ft.   | P.             | 5-6                   |
| Gen. VIII. <i>Asperugo</i> , <i>L.</i>          | <i>Mad-wort.</i>                          |                          |           |           |                |                       |
| [i. <i>A. procumbens</i> , <i>L.</i> . . .      | <i>German M.</i> . . . .                  | Was. pl.! .              | δ Pu.     | 1-2 ft.   | A.             | 6-7                   |
| Gen. IX. <i>Cynoglossum</i> , <i>L.</i>         | <i>Hound's-tongue.</i>                    |                          |           |           |                |                       |
| i. <i>C. officinale</i> , <i>L.</i> . . . .     | <i>common H.</i> . . . .                  | Was. pl..                | γ Pu.     | 1-2 ft.   | B.             | 6-7                   |
| ii. <i>C. montanum</i> , <i>Lam.</i> . .        | <i>green-leaved H.</i> . .                | Sha. pl.<br>S. of E.!    | γ Pu.     | 1-2 ft.   | B.             | 6-7                   |
| Gen. X. <i>Pulmonaria</i> , <i>L.</i>           | <i>Lung-wort.</i>                         |                          |           |           |                |                       |
| i. <i>P. angustifolia</i> , <i>L.</i> . . .     | <i>narrow-leaved L.</i>                   | Thick.!<br>S. of E.      | Pk.       | 12-18 in. | P.             | 5-6                   |
| [ii. <i>P. officinalis</i> , <i>L.</i> . . . .  | <i>common L.</i> . . . .                  | Thick.! .                | δ Pu.     | 12-18 in. | P.             | 5-6                   |
| Gen. XI. <i>Echium</i> , <i>L.</i>              | <i>Viper's Bugloss.</i>                   |                          |           |           |                |                       |
| i. <i>E. vulgare</i> , <i>L.</i> . . . . .      | <i>common V.</i> . . . .                  | Ch. fie. .               | γ Pu.     | 2-3 ft.   | B.             | 6-7                   |
| ii. <i>E. plantagineum</i> , <i>L.</i> . .      | <i>purple-flowered V.</i>                 | Jersey .                 | δ Pu.     | 1-3 ft.   | B.             | 6-7                   |

## ORD. LXI.—LENTIBULARIACEÆ.

|  |                          |            |     |         |    |     |
|--|--------------------------|------------|-----|---------|----|-----|
| Gen. I. <i>Pinguicula</i> , <i>L.</i>      | <i>Butter-wort.</i>      |            |     |         |    |     |
| i. <i>P. grandiflora</i> , <i>Lam.</i> . . | <i>large-flowered B.</i> | Bogs ! I.. | Vi. | 4-6 in. | P. | 5-6 |
| ii. <i>P. vulgaris</i> , <i>L.</i> . . . . | <i>common B.</i> . . . . | Bogs . .   | Vi. | 2-4 in. | P. | 5-7 |

ORD. LX.—BORAGINACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

ii. St. erect—Cor. rather longer than cal., throat naked—Ach. wrinkled.

iii. Barren st. prost.—Cor. (bluish Pu.) much longer than cal.

**Gen. III.**

i. St. procumb.—Ls. ov., ac., rough, glauc., fleshy.

**Gen. IV.**

i. St. winged above—Upper ls. lanc., very decurrent.

v. 12. *Cor. purple.*

ii. St. scarcely winged—Upper ls. ov.-lanc., slightly decurr.

**Gen. V.**

i. Very hisp.—Lower ls. ob.-ov., atten. at base—Seg. of cor. acu., spread.

**Gen. VI.**

i. Very hisp.—Ls. lanc., wavy ; bristles with tuberc. bases.

**Gen. VII.**

i. Ls. lanc.—Spikes unilat., crowded.]

ii. Ls. ov. ; lower long-stalked—Spikes in pairs, axill.]

**Gen. VIII.**

i. St. procumb., prickly—Ls. obl., hisp., lower-stalked ; upper sess.—Fls. sol., axill.]

**Gen. IX.**

i. Ls. downy ; upper narrower at base.

ii. Ls. glab. above, scab. beneath ; upper ls. less narrowed at base.

**Gen. X.**

i. Ls. lanc., rarely spotted.

ii. Ls. ov.-lanc., cord., spotted.]

**Gen. XI.**

i. St. simp.—Ls. lanc. ; st. ls. narrowed below—Spikes short, lat.

ii. St. branched—Lower ls. obl., stalked ; upper cord., semi-amplex—Spikes long.

## ORD. LXI.—LENTIBULARIACEÆ.

**Gen. I.**

i. Spur subu., shorter than the veined cor.—Segm. of cor. contiguous.

ii. Spur subu., as long as the veinless cor.—Segm. of cor. separated.

ORD. LXI.—LENTIBULARIACEÆ—*cont.*

| Botanical Name.   | Common Name.              | Soil or Situation. | Colour.     | Growth.   | Duration. | Time of flowering. |
|---|---------------------------|--------------------|-------------|-----------|-----------|--------------------|
| iii. <i>P. alpina</i> , <i>L.</i> . . . .                   | <i>Alpine B.</i> . . . .  | Scs. bogs!         | <i>p</i> Y. | 2-4 in.   | P.        | 6-7                |
| iv. <i>P. lusitanica</i> , <i>L.</i> . . . .                | <i>pale B.</i> . . . .    | Bogs<br>W. of E.   | <i>p</i> Y. | 2-4 in.   | P.        | 6-10               |
| <b>Gen. II. Utricularia, <i>L.</i></b> <i>Bladder-wort.</i> |                           |                    |             |           |           |                    |
| i. <i>U. vulgaris</i> , <i>L.</i> . . . .                   | <i>greater B.</i> . . . . | Pools . .          | Y.          | Fl.       | P.        | 6-7                |
| v. 2. <i>neglecta</i> . . . . .                             | . . . . .                 | . . . . .          | . . . . .   | . . . . . | . . . . . | . . . . .          |
| ii. <i>U. intermedia</i> , <i>Hayne</i>                     | . . . . .                 | Pools! . .         | Y.          | Fl.       | P.        | 6-7                |
| iii. <i>U. minor</i> , <i>L.</i> . . . .                    | <i>lesser B.</i> . . . .  | Pools . .          | <i>p</i> Y. | Fl.       | P.        | 6-7                |

## ORD. LXII.—PRIMULACEÆ.

|   |   |                    |              |          |    |      |
|---|---|--------------------|--------------|----------|----|------|
| <b>Gen. I. Primula, <i>L.</i></b> <i>Primrose, Cowslip, &amp;c.</i>   |   |                    |              |          |    |      |
| i. <i>P. vulgaris</i> , <i>L.</i> . . . .                             | <i>common P.</i> . . . .                        | Woods .            | <i>p</i> Y.  | 4-8 in.  | P. | 4-5  |
| ii. <i>P. elatior</i> , <i>Jacq.</i> . . . .                          | <i>Oxlip</i> . . . . .                          | Copses<br>E. of E. | <i>p</i> Y.  | 4-12 in. | P. | 4-5  |
| iii. <i>P. veris</i> , <i>L.</i> . . . . .                            | <i>Cowslip</i> . . . . .                        | Past. . .          | Y.           | 6-12 in. | P. | 5-6  |
| iv. <i>P. farinosa</i> , <i>L.</i> . . . .                            | <i>Bird's Eye P.</i> . . . .                    | Mount.<br>past!    | Li.          | 2-8 in.  | P. | 6-7  |
| v. <i>P. scotica</i> , <i>Hook.</i> . . .                             | <i>Scottish P.</i> . . . .                      | Sc. sea sh.        | Li.          | 2-4 in.  | P. | 6-7  |
| <b>Gen. II. Cyclamen, <i>L.</i></b> <i>Sow-bread.</i>                 |   |                    |              |          |    |      |
| [i. <i>C. hederifolium</i> , <i>Willd.</i>                            | <i>Sow-bread</i> . . . .                        | Woods!<br>Suffolk. | Pk.          | 4-8 in.  | P. | 9    |
| <b>Gen. III. Trientalis, <i>L.</i></b> <i>Chickweed Winter-green.</i> |   |                    |              |          |    |      |
| i. <i>T. europæa</i> , <i>L.</i> . . . .                              | <i>European C.</i> . . . .                      | Sc. woods          | W.           | 4-6 in.  | P. | 6    |
| <b>Gen. IV. Hottonia, <i>L.</i></b> <i>Water Violet.</i>              |   |                    |              |          |    |      |
| i. <i>H. palustris</i> , <i>L.</i> . . . .                            | <i>common W., or Featherfoil.</i>               | Pools . .          | <i>p</i> Pu. | Fl.      | P. | 5-6  |
| <b>Gen. V. Lysimachia, <i>L.</i></b> <i>Loosestrife.</i>              |   |                    |              |          |    |      |
| i. <i>L. vulgaris</i> , <i>L.</i> . . . .                             | <i>great yell. L.</i> . . . .                   | Riv. banks         | Y.           | 2-3 ft.  | P. | 7-8  |
| ii. <i>L. thyrsiflora</i> , <i>L.</i> . . . .                         | <i>tufted L.</i> . . . .                        | Mar.! . .          | Y.           | 1-3 ft.  | P. | 7-8  |
| iii. <i>L. nummularia</i> , <i>L.</i> . . . .                         | <i>creeping L., or Money-wort.</i>              | Damp pl.           | Y.           | Cr.      | P. | 6-7  |
| iv. <i>L. nemorum</i> , <i>L.</i> . . . .                             | <i>Wood L., or yellow Pimpernel.</i>            | Sh. pl. .          | Y.           | 3-12 in. | P. | 5-8  |
| <b>Gen. VI. Anagallis <i>L.</i></b> <i>Pimpernel.</i>                 |   |                    |              |          |    |      |
| 1. <i>A. arvensis</i> , <i>L.</i> . . . .                             | <i>scarlet P., or poor man's Weather-glass.</i> | Corn fie..         | Sc.          | 6-18 in. | A. | 5-11 |



ORD. LXI.—LENTIBULARIACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- iii. Spur conical, shorter than the cor.—Scape glab.
- iv. Spur cylind., obt., decurved, shorter than cor.—Seg. of cor. equal—Scape hairy.

## Gen. II.

- i. Spur conic.—Bladders sess. on the ls.—Upper lip of cor. as long as palate.
- v. 2. *Slenderer*—*Pedi. longer*—*Upper lip of cor. three times as long as palate (Essex)*.
- ii. Spur conic.—Bladders on the leafless branches—Upper lip of cor. twice as long as palate.
- iii. Spur short, obt.—Bladders on the ls.—Upper lip of cor. as long as palate.

## ORD. LXII.—PRIMULACEÆ.

## Gen. I.

- i. Ls. wrinkled—*Pedi. single flowered*; limb of cor. flat.
- ii. Ls. wrinkled—Fls. umbell., erect—Cal. teeth lanc., acu.
- iii. Ls. wrinkled—Fls. umbell., drooping—Cal. teeth short, ov.
- iv. Ls. mealy—Seg. of cor. distant, as long as tube—Cal. teeth lin.
- v. Ls. mealy—Seg. of cor. contiguous, half as long as tube—Cal. teeth short, ov. obt.

## Gen. II.

- i. Ls. cord., ang., finely toothed, blotched.]

## Gen. III.

- i. St. with ls. mostly at top—Ls. obl., ob.-ov.—Fls. on slender stalks.

## Gen. IV.

- i. Ls. submerged, pecti.—Fl. st. rising from water; fls. whorled.

## Gen. V.

- i. St. erect—Ls. ov.-lanc., opp., or whorled—Fls. in term. and axill. pan.
- ii. St. erect—Ls. lanc., opp.—Fls. in axill., dense rac.
- iii. St. prost.—Ls. orb., obt.—Fls. axill., sol.—Sep. ova., acu.
- iv. St. prost.—Ls. ova., acu.—Fls. axill., sol.—Sep. lin.

## Gen. VI.

- i. Ls. ov., sess.—Pet. scarcely longer than cal., fringed.

ORD. LXII.—PRIMULACEÆ.—*cont.*

| Botanical Name.                            | Common Name.  | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|---|--------------------------|-----------|-----------|----------------|-----------------------|
| <i>a. phoenicea</i> . . . . .              | . . . . .   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <i>b. pallida</i> . . . . .                | . . . . .   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <i>c. cærulea</i> . . . . .                | . . . . .   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| 11. <i>A. tenella</i> , <i>L.</i> . . . .  | <i>Bog P.</i> . . . . .                             | Bogs . .                 | Pk.       | 3-4 in.   | P.             | 7-8                   |
| <b>Gen. VII. Centunculus,</b><br><i>L.</i> | <i>Bastard Pimper-<br/>nel, or Chaff-<br/>weed.</i> |                          |           |           |                |                       |
| i. <i>C. minimus</i> , <i>L.</i> . . .     | <i>small C., or B.</i> .                            | San. hea.                | pRo.      | 1-2 in.   | A.             | 6-7                   |
| <b>Gen. VIII. Samolus, L.</b>              | <i>Brookweed.</i>                                   |                          |           |           |                |                       |
| i. <i>S. Valerandi</i> , <i>L.</i> . . .   | <i>B., or Water-pim-<br/>pernel.</i>                | Wat. pl..                | W.        | 8-10 in.  | P.             | 6-9                   |
| <b>Gen. IX. Glaux, L.</b>                  | <i>Sea Milk-wort.</i>                               |                          |           |           |                |                       |
| i. <i>G. maritima</i> , <i>L.</i> . . .    | <i>Sea M., or black<br/>Saltwort.</i>               | Mud sh. .                | Ro.       | 3-6 in.   | B.             | 6-7                   |

## ORD. LXIII.—PLUMBAGINACEÆ.

|   |                               |                       |           |           |           |           |
|---|-------------------------------|-----------------------|-----------|-----------|-----------|-----------|
| + <b>Gen. I. Armeria, Willd.</b> . . . . . <i>Thrift, Sea Pink.</i> |                               |                       |           |           |           |           |
| i. <i>A. maritima</i> , <i>Auct.</i> . .                            | <i>common T., or S.</i>       | Mud sh.<br>& mount.   | Ro.       | 3-12 in.  | P.        | 4-9       |
| v. 2. <i>planifolia</i> , <i>Sy.</i> . . . .                        | . . . . .                     | . . . . .             | . . . . . | . . . . . | . . . . . | . . . . . |
| ii. <i>A. plantaginea</i> , <i>Willd.</i>                           | <i>Plantain-leaved<br/>I.</i> | Jersey .              | p Pu.     | 6-18 in.  | P.        | 6-7       |
| <b>Gen. II. Statice, L.</b>   | <i>Sea Lavender.</i>          |                       |           |           |           |           |
| i. <i>S. Limonium</i> , <i>L.</i> . . . .                           | <i>common S.</i> . . . .      | Mud sh..              | b Pu.     | 4-12 in.  | P.        | 7-8       |
| <i>a. Behen</i> , <i>Fries.</i> . . . .                             | . . . . .                     | . . . . .             | . . . . . | . . . . . | . . . . . | . . . . . |
| <i>b. pyramidalis</i> , <i>Sy.</i> . . . .                          | . . . . .                     | . . . . .             | . . . . . | . . . . . | . . . . . | . . . . . |
| ii. <i>S. bahusiensis</i> , <i>Fries.</i>                           | <i>remote-flowered S.</i>     | Mud sh..              | b Pu.     | 4-12 in.  | P.        | 7-8       |
| iii. <i>S. binervosa</i> , <i>G. E. Sm.</i>                         | <i>upright-stalked S.</i>     | Rocky sh.             | p Pu.     | 4-10 in.  | P.        | 7-8       |
| <i>a. occidentalis</i> , <i>Lloyd.</i> . .                          | . . . . .                     | . . . . .             | . . . . . | . . . . . | . . . . . | . . . . . |
| <i>b. intermedia</i> , <i>Syme.</i> . . .                           | . . . . .                     | . . . . .             | . . . . . | . . . . . | . . . . . | . . . . . |
| <i>c. Dodartii</i> . . . . .  | . . . . .                     | . . . . .             | . . . . . | . . . . . | . . . . . | . . . . . |
| iv. <i>S. caspia</i> , <i>Willd.</i> . . .                          | <i>matted S.</i> . . . . .    | Salt mar.<br>E. of E. | p Li.     | 4-8 in.   | P.        | 7-8       |

ORD. LXII.—PRIMULACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- a.* Cor. scarlet.
- b.* Cor. white, with a purple eye.
- c.* Cor. blue.
- ii.** Ls. round, stalked—Pet. much longer than cal., ent., not fringed.

**Gen. VII.**

- i.** Ls. ov., alt., acu.—Fls. sol., axill., sess.

**Gen. VIII.**

- i.** Ls. ob.-ov., obt. ; fleshy—Rac. many-flowered ; erect.

**Gen. IX.**

- i.** St. procumb.—Ls. ov., opp., glab., fleshy—Fls. sess., axill.

## ORD. LXIII.—PLUMBAGINACEÆ.

**Gen. I.**

- i.** Ls. lin., one-nerved—Cal. teeth short.
- v. 2.** *Ls. broader, flat.*
- ii.** Ls. lan. 3-5 nerved—Cal. teeth long, setaceous.

**Gen. II.**

- i.** Ls. ellip.-lanc., one-ribbed—Scape branched from above the middle—Spikes short, dense flowered.
- a.* Spikes lax on a compact, level topped corymb., with short stout branches.
- b.* Spikes lax on a spread., pyram. corymb., with flexuous branches.
- ii.** Ls. obl.-lanc., one-ribbed—Scape branched from near the base—Spikes long ; fls. distant.
- iii.** Ls. spath., narrowed into the stalk—Scape branched from near the middle—Branches nearly all flowering.
- a.* Ls. ob. ov.-lanc.—Lower branches of pan. sometimes flowerless ; spikes slender.
- b.* Ls. as Var. *a*—Branches all flowering ; spikes dense.
- c.* Ls. spath.—Branches all flowering ; spikes dense, imbric.
- iv.** Ls. spath.—Scape branched from base ; upper branches flowering, lower barren, tangled—Fls. small, crowded.

## ORD. LXIV.—PLANTAGINACEÆ.

| Botanical Name.                       | Common Name.               | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------------|----------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. I. Plantago, L.</b>           | <i>Plantain.</i>           |                          |         |          |                |                       |
| i. <i>P. major, L.</i> . . . . .      | <i>greater P.</i> . . . .  | Past. . .                | G.      | 2-5 in.  | P.             | 6-8                   |
| v. 2. <i>microstachya</i> . . . . .   |                            |                          |         |          |                |                       |
| ii. <i>P. media, L.</i> . . . . .     | <i>hoary P.</i> . . . . .  | Ch. pas..                | G.      | 6-12 in. | P.             | 6-10                  |
| iii. <i>P. lanceolata, L.</i> . . . . | <i>Ribwort P.</i> . . . .  | Past. . .                | G.      | 2-12 in. | P.             | 6-7                   |
| v. 2. <i>Timbali</i> . . . . .        |                            |                          |         |          |                |                       |
| iv. <i>P. maritima, L.</i> . . . . .  | <i>Sea-side P.</i> . . . . | Sea sh. &<br>Sc. mount.  | G.      | 1-12 in. | P.             | 6-9                   |
| v. <i>P. Coronopus, L.</i> . . . . .  | <i>Bucks-horn P.</i> . . . | Dry pl. .                | G.      | 1-8 in.  | A.             | 6-7                   |
| <b>Gen. II. Littorella, L.</b>        | <i>Shore-weed.</i>         |                          |         |          |                |                       |
| i. <i>L. lacustris, L.</i> . . . . .  | <i>Plantain S.</i> . . . . | San. sh.<br>of lakes.    | W.      | 2-3 in.  | P.             | 6-7                   |

## ORD. LXV.—AMARANTHACEÆ.

|                                    |                          |           |     |         |    |   |
|------------------------------------|--------------------------|-----------|-----|---------|----|---|
| <b>Gen. I. Amaranthus, L.</b>      | <i>Amaranth.</i>         |           |     |         |    |   |
| [i. <i>A. Blitum, L.</i> . . . . . | <i>wild A.</i> . . . . . | Was. pl.. | . . | 1-2 ft. | A. | 8 |

## ORD. LXVI.—CHENOPODIACEÆ.

|  |                            |           |     |          |     |     |
|--|----------------------------|-----------|-----|----------|-----|-----|
| <b>Gen. I. Chenopodium, L.</b>           | <i>Goose-foot.</i>         |           |     |          |     |     |
| <i>A.</i><br>*                           |                            |           |     |          |     |     |
| i. <i>C. olidum, Curt.</i> . . . . .     | <i>stinking G.</i> . . . . | Was. pl.. | . . | 6-18 in. | A.  | 8-9 |
| ii. <i>C. polyspermum, L.</i> . . . .    | <i>many-seeded G.</i> . .  | Was. pl.. | . . | 6-18 in. | A.  | 8-9 |
| <i>a. acutifolium, Sm.</i> . . . . .     | . . . . .                  | Cornwall! | . . | . .      | . . | . . |
| <i>b. obtusifolium</i> . . . . .         | . . . . .                  | (common)  | . . | . .      | . . | . . |
| * *                                      |                            |           |     |          |     |     |
| †  |                            |           |     |          |     |     |
| iii. <i>C. urbicum, L.</i> . . . . .     | <i>upright G.</i> . . . .  | Was. pl.. | . . | 1-3 ft.  | A.  | 8-9 |
| v. 2. <i>intermedium</i> . . . . .       |                            |           |     |          |     |     |
| iv. <i>C. murale, L.</i> . . . . .       | <i>Nettle-leaved G.</i> .  | Was. pl.. | . . | 6-18 in. | A.  | 8-9 |
| v. <i>C. hybridum, L.</i> . . . . .      | <i>Maple-leaved G.</i> .   | Was. pl.. | . . | 1-3 ft.  | A.  | 8-9 |
| † †                                      |                            |           |     |          |     |     |
| vi. <i>C. album, L.</i> . . . . .        | <i>white G.</i> . . . . .  | Was. pl.. | . . | 1-3 ft.  | A.  | 7-9 |
| <i>a. candicans</i> . . . . .            | . . . . .                  | . . . . . | . . | . .      | . . | . . |
| <i>b. viride, L.</i> . . . . .           | . . . . .                  | . . . . . | . . | . .      | . . | . . |
| <i>c. virens</i> . . . . .               | . . . . .                  | . . . . . | . . | . .      | . . | . . |
| vii. <i>C. filicifolium, Sm.</i> . . . . | <i>Fig-leaved G.</i> . . . | . . . . . | . . | . .      | . . | . . |

## ORD. LXIV.—PLANTAGINACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. Ls. broadly ov., on long grooved stalks—Scape round—Spike long; sep. with a prominent rib.
- v. 2. *Scape short—Spike 3-6 flowered (Connemara).*
- ii. Ls. ellip., sess., or shortly stalked—Scape round—Spike cylind.; sep. not keeled.
- iii. Ls. lanc., five-ribbed, narrowed at each end—Scape furrowed—Spike glob.
- v. 2. *Sep. and bracts with silvery margins.*
- iv. Ls. lin., fleshy—Scape round—Spike cylind.; sep. not keeled.
- v. Ls. lin., pinnfid.—Scape round, hairy—Spike cylind., slend.

## Gen. II.

- i. Ls. all rad., lin., fleshy—Fert. fls. sess.; barren fls. sol., stalked, axill.

## ORD. LXV.—AMARANTHACEÆ.

## Gen. I.

- i. St. decumb.—Ls. cb.-ov., long-stalked—Fls. minute, in small axill. clusters.]

## ORD. LXVI.—CHENOPODIACEÆ.

## Gen. I.

*A. Seeds horizontal.*

\* *Ls. ent.*

- i. Ls. stalked, ov., mealy, fetid—Fls. in dense, leafless spikes.
- ii. Ls., ov.-ellip.—Fls. in long, axill., leafless rac.
- a. St. ascend.—Ls. acute.
- b. St. decumb.—Ls. obtuse.
- \* \* *Ls. angled, lobed or toothed.*
- † *Ls. green beneath.*
- iii. Ls. triang., toothed, their base narrowed into the stalk—Spikes long, erect—Fls. in small, remote clusters.
- v. 2. *Ls. with large acute teeth.*
- iv. Ls. ov.-rhomb. sharply and unequally toothed—Branches of spike spreading; fls. cymose; seeds keeled.
- v. Ls. cord., angled, teeth large, distant—Spikes in axill., lax corymbs—Seeds not keeled.
- † † *Ls. glauc. or mealy beneath.*
- vi. Ls. ov.-rhomb., ent at base, mealy; upper lanc. ent.—Spikes leafy, branched; with distant clusters.
- a. Ls. mealy, toothed—Spikes dense, simp.
- b. Ls. sparingly mealy, nearly ent.—Spikes lax, branched.
- c. Lower ls. bluntly serr., mealy below—Spikes lax, erect.
- vii. Ls. ov.-obl. unequally three-lobed; base wedge-shaped—Upper lin.-lanc.—Spike leafy at base, with erect branches.

## ORD. LXVI.—CHENOPODIACEÆ—cont.

| Botanical Name.                         | Common Name.                                   | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|---------|----------|----------------|-----------------------|
| <i>B.</i>                               |  |                          |         |          |                |                       |
| viii. <i>C. rubrum, L.</i> . . . .      | <i>red G.</i> . . . .                          | Was. pl.                 | ..      | 1-3 ft.  | A.             | 8-9                   |
| v. 2. <i>pseudo-botryoides</i> . . . .  | . . . .  | Sea co.                  | ..      | ..       | ..             | ..                    |
| ix. <i>C. botryoides, Sm.</i> . . . .   | . . . .  | San. sh.                 | ..      | 4-5 in.  | A.             | 8-9                   |
| x. <i>C. glaucum, L.</i> . . . .        | <i>Oak-leaved G.</i> . . . .                   | Was. pl.!                | ..      | 6-18 in. | A.             | 8-9                   |
| xi. <i>C. Bonus-Henricus, L.</i>        | <i>Mercury G., or<br/>Good King<br/>Henry.</i> | Was. pl.                 | ..      | 1-3 ft.  | P.             | 6-8                   |
| <b>Gen. II. Obione, Gaert.</b>          | <i>Sea-Purslane.</i>                           |                          |         |          |                |                       |
| i. <i>O. portulacoides, Moq.</i>        | <i>Shrubby S.</i> . . . .                      | Mud. sh.                 | ..      | 1-2 ft.  | P.             | 8-10                  |
| ii. <i>O. pedunculata, Moq.</i>         | <i>Stalked S.</i> . . . .                      | Mud. sh.                 | ..      | 3-8 in.  | A.             | 8-10                  |
| <b>Gen. III. Atriplex, L.</b>           | <i>Orache.</i>                                 |                          |         |          |                |                       |
| <i>A.</i>                               |  |                          |         |          |                |                       |
| i. <i>A. arenaria, Woods</i> . . . .    | <i>Frosted Sea O.</i> . . . .                  | San. sh.                 | ..      | 4-10 in. | A.             | 7-10                  |
| <i>B.</i>                               |  |                          |         |          |                |                       |
| *                                       |  |                          |         |          |                |                       |
| ii. <i>A. Babingtonii, Woods</i>        | <i>spreading-fruited<br/>O.</i>                | Sea sh.                  | ..      | 1-3 ft.  | A.             | 7-9                   |
| iii. <i>A. hastata, L.</i> . . . .      | <i>Halberd-leaved O.</i>                       | Was. pl.                 | ..      | 1-3 ft.  | A.             | 7-9                   |
| a. <i>hastata</i> . . . .               | . . . .  | . . . .                  | ..      | ..       | ..             | ..                    |
| b. <i>deltoidea, Bab.</i> . . . .       | . . . .  | . . . .                  | ..      | ..       | ..             | ..                    |
| iv. <i>A. patula, L.</i> . . . .        | . . . .  | Was. pl.                 | ..      | 1-3 ft.  | A.             | 7-9                   |
| a. <i>angustifolia</i> . . . .          | . . . .  | . . . .                  | ..      | ..       | ..             | ..                    |
| b. <i>erecta</i> . . . .                | . . . .  | . . . .                  | ..      | ..       | ..             | ..                    |
| * *                                     |  |                          |         |          |                |                       |
| v. <i>A. littoralis, L.</i> . . . .     | <i>Grass-leaved O.</i> . . . .                 | Salt mar.                | ..      | 1-2 ft.  | A.             | 7-9                   |
| v. 2. <i>marina</i> . . . .             | . . . .  | . . . .                  | ..      | ..       | ..             | ..                    |
| <b>Gen. IV. Beta, L.</b>                | <i>Beet.</i>                                   |                          |         |          |                |                       |
| i. <i>B. maritima, L.</i> . . . .       | <i>common B.</i> . . . .                       | Mud. sh.                 | ..      | 1-2 ft.  | P.             | 6-10                  |
| <b>Gen. V. Salsola, L.</b>              | <i>Saltwort.</i>                               |                          |         |          |                |                       |
| i. <i>S. Kali, L.</i> . . . .           | <i>prickly S.</i> . . . .                      | San. sh.                 | ..      | 6-18 in. | A.             | 7                     |
| <b>Gen. VI. Suaeda, Forsk.</b>          | <i>Sea-blite.</i>                              |                          |         |          |                |                       |
| i. <i>S. maritima, Dum.</i> . . . .     | <i>annual S.</i> . . . .                       | Salt mar.                | ..      | 3-18 in. | A.             | 7-9                   |
| ii. <i>S. fruticosa, Forsk.</i> . . . . | <i>Shrubby S.</i> . . . .                      | San. sh.!                | ..      | 1-3 ft.  | P.             | 7-9                   |
| <b>Gen. VII. Salicornia, L.</b>         | <i>Glass-wort.</i>                             |                          |         |          |                |                       |
| i. <i>S. herbacea, L.</i> . . . .       | <i>jointed-G.</i> . . . .                      | Salt mar.                | ..      | 6-18 in. | A.             | 8-9                   |
| v. 2. <i>procumbens, Sm.</i> . . . .    | . . . .  | . . . .                  | ..      | ..       | ..             | ..                    |
| ii. <i>S. radicans, Sm.</i> . . . .     | <i>creeping G.</i> . . . .                     | Salt mar.!               | ..      | 6-18 in. | P.             | 8-9                   |

ORD. LXVI.—CHENOPODIACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

*B. Seeds vertical.*

- viii. Ls. all triang., irregularly toothed, glab.—Spikes erect, leafy—Fls. crowded.  
 v. 2. *Small, reddish—Ls. rhomb., spikes shorter.*  
 ix. St. prost.—Ls. triang., scarcely toothed, fleshy—Fls. in dense, leafy cymes.  
 x. St. prost.—Ls. all obl., toothed, mealy beneath—Spikes erect, simp., leafless.  
 xi. Perenn.—Ls. triang.-hast., acu.—Fls. in term, compound spikes.

## Gen. II.

- i. Shrubby—Ls. ov.-lanc., ent., silvery white—Fr. sess.  
 ii. Herb—Ls. ob.-ov., ent., mealy—Fr. long-stalked.

## Gen. III.

*A. St. buff.*

- i. Ls. triang.-rhomb., lacin., silvery white—Fls. in axill., sess. clusters.

*B. St. green, with reddish stripes.**\* Lower ls. with lateral lobes.*

- ii. St. procumb.—Ls. ov.-triang., pale green, mealy ; upper lanc., three-lobed at base—Fls. in axill. and term clusters.  
 iii. Ls. hast.-triang., lobes spreading—Fls. densely paniced, in simp. spikes.  
 a. Upper ls. not hast.—Spikes lax.  
 b. Upper ls. hast.—Spikes dense.  
 iv. Ls. with two ascending lobes from a cuneate base, upper ent.—Fls. in simple, interrupted spikes.  
 a. St. procumb.—Lower ls. ent.—Spikes long, lax.  
 b. St. erect—Lower ls. sinu.—Spikes short, dense.  
 \* \* *Ls. all ent.*  
 v. Ls. lin.-lanc.—Fls. in axill., sess. clusters.  
 v. 2. *Ls. ov.-lanc., serr.*

## Gen. IV.

- i. Sts. many, procumb. at base—Ls. ov.-cun., fleshy, narrowed into the stalk—Spikes long, simp., leafy.

## Gen. V.

- i. St. prost.—Ls. subu., fleshy, spiny—Fls. axill., sol.

## Gen. VI.

- i. St. herb., ann.—Ls. acute.  
 ii. St. shrubby, perenn.—Ls. obt.

## Gen. VII.

- i. St. erect, herb, ann. ; its joints thickened upwards—Spikes cylind., tapering.  
 v. 2. *St. procumb.*  
 ii. St. procumb., woody, perenn. ; its joints scarcely thickened—Spikes obt.

## ORD. LXVII.—POLYGONACEÆ.

| Botanical Name.                         | Common Name.  | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|---|--------------------------|-----------|-----------|----------------|-----------------------|
| <b>Gen. I. Polygonum, L.</b>            |   |                          |           |           |                |                       |
|   | <i>Persicaria, Bistorta, Knot-grass, Buckwheat.</i> |                          |           |           |                |                       |
| <i>A.</i>                               |   |                          |           |           |                |                       |
| i. <i>P. Bistorta, L.</i> . . . .       | <i>common B., or Snake-weed.</i>                    | Moi. mead.               | Fl.       | 12-18 in. | P.             | 6-9                   |
| ii. <i>P. viviparum, L.</i> . . . .     | <i>alpine B.</i> . . . .                            | Mount. past.!            | ♂ Fl.     | 4-8 in.   | P.             | 6-7                   |
| <i>B.</i>                               |   |                          |           |           |                |                       |
| iii. <i>P. amphibium, L.</i> . . . .    | <i>amphibious B.</i> . . . .                        | Dit. & mud. pl.          | Ro.       | 2-3 ft.   | P.             | 7-8                   |
| <i>a. aquaticum.</i> . . . . .          | . . . . .   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <i>b. terrestre</i> . . . . .           | . . . . .   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| iv. <i>P. lapathifolium, L.</i> . . . . | <i>pale-flowered P.</i>                             | Was. pl.                 | gr Pk.    | 1-4 ft.   | A.             | 7-8                   |
| v. 2. <i>laxum</i> . . . . .            | . . . . .   | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| v. <i>P. Persicaria, L.</i> . . . .     | <i>spotted P.</i> . . . .                           | Was. pl.                 | gr Ro.    | 1-2 ft.   | A.             | 7-10                  |
| <i>**</i>                               |   |                          |           |           |                |                       |
| vi. <i>P. mite, Schrank.</i> . . . .    | <i>lax-flowered P.</i> . . . .                      | Wet pl.!                 | Pk.       | 1-2 ft.   | A.             | 7-9                   |
| vii. <i>P. Hydropiper, L.</i> . . . .   | <i>biting P.</i> . . . .                            | Wet pl.                  | Pk.       | 1-3 ft.   | A.             | 8-9                   |
| viii. <i>P. minus, Huds.</i> . . . .    | <i>creeping P.</i> . . . .                          | Mar.!                    | Pk.       | 6-18 in.  | A.             | 8-9                   |
| <i>C.</i>                               |   |                          |           |           |                |                       |
| ix. <i>P. aviculare, L.</i> . . . .     | <i>common K.</i> . . . .                            | Was. pl.                 | Var.      | 1-3 ft.   | A.             | 7-9                   |
| x. <i>P. Raii, Bab.</i> . . . .         | <i>Ray's K.</i> . . . .                             | San. sh.                 | Var.      | 1-3 ft.   | A.             | 7-9                   |
| xi. <i>P. maritimum, L.</i> . . . .     | <i>Sea-side K.</i> . . . .                          | Sea sh.                  | Var.      | 1-3 ft.   | P.             | 8-9                   |
| <i>D.</i>                               |   |                          |           |           |                |                       |
| xii. <i>P. Convolvulus, L.</i> . . . .  | <i>climbing B.</i> . . . .                          | Corn fie..               | Gr.       | 1-4 ft.   | A.             | 7-9                   |
| v. 2. <i>pseudo-dumetorum.</i>          | . . . . .   | Thick. .                 | . . . . . | . . . . . | . . . . .      | . . . . .             |
| xiii. <i>P. dumetorum, L.</i> . . . .   | <i>Copse B.</i> . . . .                             | Thick. .                 | Gr.       | 1-4 ft.   | A.             | 8-9                   |
| <b>Gen. II. Rumex, L.</b>               |   |                          |           |           |                |                       |
|   | <i>Dock, Sorrel.</i>                                |                          |           |           |                |                       |
| <i>A.</i>                               |   |                          |           |           |                |                       |
| <i>*</i>                                |   |                          |           |           |                |                       |
| i. <i>R. obtusifolius, L.</i> . . . .   | <i>broad-leaved D.</i> . . . .                      | Was. pl.                 | r G.      | 2-3 ft.   | P.             | 7-9                   |
| ii. <i>R. pratensis, M. &amp; K.</i>    | <i>Meadow D.</i> . . . .                            | Mar. . .                 | r G.      | 2-3 ft.   | P.             | 7-9                   |
| iii. <i>R. pulcher, L.</i> . . . .      | <i>Fiddle D.</i> . . . .                            | Waysides                 | r G.      | 6-18 in.  | P.             | 6-10                  |
| iv. <i>R. maritimus, L.</i> . . . .     | <i>golden D.</i> . . . .                            | Mar.!                    | y G.      | 1-2 ft.   | P.             | 7-8                   |
| v. <i>R. palustris, Sm.</i> . . . .     | <i>yellow Marsh D.</i>                              | Mar.!                    | y G.      | 1-2 ft.   | P.             | 7-8                   |
| <i>**</i>                               |   |                          |           |           |                |                       |
| vi. <i>R. crispus, L.</i> . . . .       | <i>curled D.</i> . . . .                            | Was. pl.                 | r G.      | 2-3 ft.   | P.             | 6-8                   |
| vii. <i>R. nemorosus, Schrad.</i>       | . . . . .   | Sh. pl.                  | r G.      | 1-4 ft.   | P.             | 7-8                   |
| <i>a. viridis, Sibth.</i> . . . .       | <i>green-veined D.</i> . . . .                      | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <i>b. sanguineus, L.</i> . . . .        | <i>bloody-veined D.</i> . . . .                     | Woods!                   | . . . . . | . . . . . | . . . . .      | . . . . .             |



## ORD. LXVII.—POLYGONACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

*A. St. simple—Spikes term.*

i. Ls. ov., sub-cord., waved; rad. ls. with a winged stalk—Spikes dense.

ii. Ls. lin.-lanc., margins revolute—Spikes lax.

*B. St. branched—Fls. racemed or paniced.**\* Spike short, dense, not leafy at base.*

iii. Ls. lanc., stalked—Spike dense, sol. term.

a. Floating—Ls. broadly lanc., glab.

b. Creeping—Ls. narrow lanc., with adpr. hairs.

iv. Ls. ov.-lanc., not spotted—Spikes term. and lat.—Pedunc. and cal. gland., scab; sty. free—Lower stip. not fringed.

v. 2. *Spikes drooping in pairs—Joints of st. tumid.—Stip. slightly fringed.*

v. Ls. lanc., usually spotted—Spikes term. and axill.—Pedunc. and cal. glab.—Sty. half united—Stip. fringed.

*\* \* Spike lax, interrupted, leafy at base.*

vi. Spikes erect—Ls. lanc., wavy—Stip. hairy.

vii. Spikes drooping—Ls. lanc., wavy—Stip. glab.—Stig. half united.

viii. Spikes erect—St. procumb.—Ls. lin.-lanc., flat—Sty. united.

*C. St. procumb.—Fls. axill.*

ix. St. herb—Ls. flat—Stip. shorter than the internodes, with few distant veins—Fr. shorter than cal.

x. Habit of P. aviculare, but fr. longer than cal.

xi. St. woody—Ls. fleshy, glauc., margins revolute—Stip. as long as internodes, with many branched veins—Fr. longer than cal.

*D. St. climbing—Fls. racemose.*

xii. St. ang.—Segm. of cal. obtusely keeled.

v. 2. *Seg. of cal. winged.*

xiii. St. round—Segm. of cal. winged.

## Gen. II.

*A. Fls. perfect—Ls. not acid.**\* Inner sep. strongly toothed.*N.B. *The inner enlarged sep. are alluded to in all cases in the Genus Rumex.*

i. Ls. cord.-ov., blunt; upper lanc.—Whorls dist., leafless above—Sep. ov. with a long point; upper tubercled.

ii. Ls. obl.-lanc., acu.; lower rather cord.—Whorls distinct, leafless—Sep. cord., unequal, with a small triang. point; upper one tubercled.

iii. St. procumb.—Lower ls. fiddle-shaped; upper lanc. ac.—Whorls distant, leafy—Sep. triang.-ov., veined; one tubercled.

iv. Ls. lin.-lanc.—Whorls crowded, leafy—Sep. delt., with 2-4 setaceous teeth on each side, and a narrow tubercle.

v. Ls. lin.-lanc.—Whorls dist., leafy—Sep. ov.-obl., with 2-3 short setaceous teeth on each side, and a narrow tubercle.

*\* \* Inner sep. ent., or slightly toothed.*

vi. Ls. lanc., acu., wavy—Whorls crowded, leafless—Sep. cord., upper one tubercled.

vii. Ls. ov.-lanc.; lower cord.—Whorls distant, leafless—Sep. obl., obt., upper tubercled.

a. Ls. veined with green.

b. Ls. veined with red.

ORD. LXVII.—POLYGONACEÆ—*cont.*

| Botanical Name.                                | Common Name.                             | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--|--|--------------------------|---------|----------|----------------|-----------------------|
| viii. <i>R. conglomeratus</i> ,<br><i>Mur.</i> | <i>sharp D.</i> . . . .                  | Wet pl. .                | r G.    | 1-3 ft.  | P.             | 7-8                   |
| ix. <i>R. Hydrolapathum</i> ,<br><i>Huds.</i>  | <i>great Water D.</i>                    | Riv. sides               | r G.    | 3-6 ft.  | P.             | 7-8                   |
| x. <i>R. aquaticus</i> , <i>L.</i> . . .       | <i>grainless Water<br/>D.</i>            | Mar. . .                 | r G.    | 1-3 ft.  | P.             | 7-8                   |
| [xi. <i>R. alpinus</i> , <i>L.</i> . . . .     | <i>Alpine D., or<br/>Monk's-Rhubarb.</i> | Sco.! . .                | r G.    | 2-4 ft.  | P.             | 7-8                   |
|  | <i>B.</i>                                |                          |         |          |                |                       |
| xii. <i>R. Acetosa</i> , <i>L.</i> . . .       | <i>common S.</i> . . .                   | Mead.. .                 | puR.    | 1-2 ft.  | P.             | 5-7                   |
| xiii. <i>R. Acetosella</i> , <i>L.</i> . .     | <i>Sheep's S.</i> . . . .                | Dry pas.                 | puR.    | 3-12 in. | P.             | 5-7                   |
| Gen. III. <i>Oxyria</i> , <i>Hill.</i>         | <i>Mountain Sorrel.</i>                  |                          |         |          |                |                       |
| i. <i>O. reniformis</i> , <i>Hook.</i> .       | <i>Mountain S.</i> . .                   | Mount.<br>rocks.         | r G.    | 6-10 in. | P.             | 7-8                   |

## ORD. LXVIII.—ELEAGNACEÆ.

|   |                         |              |    |         |      |     |
|---|-------------------------|--------------|----|---------|------|-----|
| Gen. I. <i>Eippophaë</i> , <i>L.</i>    | <i>Sea Buck-thorn.</i>  |              |    |         |      |     |
| i. <i>H. rhamnoides</i> , <i>L.</i> . . | <i>Sea B.</i> . . . . . | San. cliffs! | G. | 1-8 ft. | Shb. | 5-6 |

## ORD. LXIX.—THYMELACEÆ.

|  |                                     |          |      |         |      |     |
|--|-------------------------------------|----------|------|---------|------|-----|
| Gen. I. <i>Daphne</i> , <i>L.</i>        | <i>Mezereon, Spurge<br/>Laurel.</i> |          |      |         |      |     |
| i. <i>D. mezereum</i> , <i>L.</i> . . .  | <i>common M.</i> . . . .            | Woods! . | p R. | 1-3 ft. | Shb. | 3-4 |
| ii. <i>D. laureola</i> , <i>L.</i> . . . | <i>common S.</i> . . . .            | Woods .  | y G. | 2-4 ft. | Shb. | 2-4 |

## ORD. LXX.—SANTALACEÆ.

|  |                                |           |    |          |    |     |
|--|--------------------------------|-----------|----|----------|----|-----|
| Gen. I. <i>Thesium</i> , <i>L.</i>     | <i>Bastard Toad-<br/>flax.</i> |           |    |          |    |     |
| i. <i>T. humifusum</i> , <i>L.</i> . . | <i>Lint-leaved B.</i> . .      | Ch. downs | W. | 6-12 in. | P. | 5-7 |

## ORD. LXXI.—ARISTOLOCHIACEÆ.

|                                       |                     |                    |      |     |    |   |
|---------------------------------------|---------------------|--------------------|------|-----|----|---|
| Gen. I. <i>Asarum</i> , <i>L.</i>     | <i>Asarabacca.</i>  |                    |      |     |    |   |
| i. <i>A. europæum</i> , <i>L.</i> . . | <i>A.</i> . . . . . | Woods!<br>N. of E. | g B. | Cr. | P. | 5 |

ORD. LXVII.—POLYGONACEÆ--*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- viii. Ls. ov.-lanc., not contracted above the base—Whorls distant, leafy—Sep. lin.-obl., blunt, each tubercled.  
 ix. Ls. lanc., ac., ent., tapering into the stalk—Whorls crowded; leafless—Sep. ov.-triang., all tubercled.  
 x. Ls. lan., lower cord., wavy—Whorls crowded, leafless—Sep. cord., membranous, not tubercled.  
 xi. Ls. roundish-cord., blunt; stalk furrowed; upper ov.—Sep. cord., ov., not tubercled.]  
*B. Flowers diœcious—Leaves acid.*  
 xii. Ls. obl.-sagitt.—Outer sep. reflexed—Inner enlarged, slightly tubercled.  
 xiii. Lower ls. hast.—Outer sep. ascend.—Inner hardly enlarged, not tubercled.

## Gen. III.

- i. Ls. rad., renif., long-stalked—Pan. leafless, slender—Pedi. thickened upwards.

## ORD. LXVIII.—ELEAGNACEÆ.

## Gen. I.

- i. Thorny—Ls. lin.-lanc. silvery—Fls. small, appearing with the young ls.

## ORD. LXIX.—THYMELACEÆ.

## Gen. I.

- i. Ls. decid.—Fls. lat., sess. in threes.  
 ii. Ls. evergreen—Fls. in axill., few-flowered racemes.

## ORD. LXX.—SANTALACEÆ.

## Gen. I.

- i. Ls. lin.-lanc., one-nerved—Fls. in leafy, paniced racemes.

## ORD. LXXI.—ARISTOLOCHIACEÆ.

## Gen. I.

- i. Ls. reni., obt., in pairs, in the axills of which is a sol. drooping fl.

ORD. LXXI.—ARISTOLOCHIACEÆ—*cont.*

| Botanical Name.                   | Common Name.           | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|-----------------------------------|------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. II. Aristolochia, L.</b>  | <i>Birthwort.</i>      |                          |         |         |                |                       |
| i. <i>A. Clematitis, L.</i> . . . | <i>common B.</i> . . . | Ruins . .                | p Y.    | 3-6 in. | P.             | 7-8                   |

## ORD. LXXII.—EMPETRACEÆ.

|                                 |                                       |                 |     |          |      |     |
|---------------------------------|---------------------------------------|-----------------|-----|----------|------|-----|
| <b>Gen. I. Empetrum, L.</b>     | <i>Crowberry.</i>                     |                 |     |          |      |     |
| i. <i>E. nigrum, L.</i> . . . . | <i>Black C., or Crake-<br/>berry.</i> | Mount.<br>hths. | Pu. | 6-18 in. | Shb. | 5-6 |

## ORD. LXXIII.—EUPHORBIACEÆ.

|                                      |   |                               |       |          |       |       |
|--------------------------------------|---|-------------------------------|-------|----------|-------|-------|
| <b>Gen. I. Euphorbia, L.</b>         | <i>Spurge.</i>                            |                               |       |          |       |       |
| A.                                   |   |                               |       |          |       |       |
| i. <i>E. Peplis, L.</i> . . . .      | <i>purple S.</i> . . . .                  | San. sh.!<br>S. of E.         | Y.    | 6-12 in. | A.    | 7-9   |
| B.                                   |   |                               |       |          |       |       |
| ii. <i>E. Helioscopia, L.</i> . . .  | <i>Sun S.</i> . . . .                     | Was. pl..                     | g Y.  | 6-18 in. | A.    | 6-10  |
| iii. <i>E. platyphylla, L.</i> . . . | <i>broad-leaved<br/>Warted S.</i> . . . . | Corn fie.!<br>S. of E.        | g Y.  | 4-3 ft.  | A.    | 7-10. |
| v. 2. <i>stricta</i> . . . . .       | . . . . .                                 | Li. woods,<br>Glos. &<br>Mon. | . . . | . . .    | . . . | . . . |
| iv. <i>E. hiberna, L.</i> . . . .    | <i>Irish S.</i> . . . .                   | Thick.! I.                    | g Y.  | 1-2 ft.  | P.    | 5-6   |
| v. <i>E. pilosa, L.</i> . . . .      | <i>Marsh S.</i> . . . .                   | Sh. pl.! .                    | g Y.  | 2-4 ft.  | P.    | 5-6   |
| [vi. <i>E. coralloides, L.</i> . . . | <i>Coral-like hairy S.</i>                | Hedges,<br>Slinfold.!         | g Y.  | 1-2 ft.  | P.    | 5-6   |
| †                                    |   |                               |       |          |       |       |
| vii. <i>E. amygdaloides, L.</i> . .  | <i>Wood S.</i> . . . .                    | Thick. .                      | Y.    | 6-12 in. | P.    | 3-5   |
| ††                                   |   |                               |       |          |       |       |
| [viii. <i>E. Esula, L.</i> . . . .   | <i>leafy-branched S.</i>                  | Woods!<br>Sco.                | Y.    | 1-2 ft.  | P.    | 7-8   |
| [ix. <i>E. Cyparissias, L.</i> . . . | <i>Cypress S.</i> . . . .                 | Woods! .                      | Y.    | 1-2 ft.  | P.    | 6-7   |
| x. <i>E. Paralias, L.</i> . . . .    | <i>Sea S.</i> . . . .                     | San. sh..                     | Y.    | 1-2 ft.  | P.    | 7-10  |
| xi. <i>E. portlandica, L.</i> . . .  | <i>Portland S.</i> . . . .                | San. sh..                     | Y.    | 6-18 in. | P.    | 5-9   |
| xii. <i>E. exigua, L.</i> . . . .    | <i>dwarf S.</i> . . . .                   | Corn fie..                    | Y.    | 6-12 in. | A.    | 7-10  |
| xiii. <i>E. Peplus, L.</i> . . . .   | <i>petty S.</i> . . . .                   | Was. pl..                     | Y.    | 6-12 in. | A.    | 7-11  |
| ***                                  |   |                               |       |          |       |       |
| [xiv. <i>E. Lathyris, L.</i> . . . . | <i>Caper S.</i> . . . .                   | Thick.! .                     | Pu.   | 3-4 ft.  | P.    | 6-7   |
| <b>Gen. II. Buxus, L.</b>            | <i>Box.</i>                               |                               |       |          |       |       |
| i. <i>B. sempervirens, L.</i> . . .  | <i>common B.</i> . . . .                  | Ch. hills!                    | g W.  | 6-12 ft. | Shb.  | 4-6   |

ORD. LXXI—ARISTOLOCHIACEÆ.—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. II.

- i. St. erect, simp.—Ls. cord., stalked, glab.—Fls. crowded, erect.

## ORD. LXXII.—EMPETRACEÆ.

## Gen. I.

- i. St. procumb.—Ls. lin.-obl. ; margins meeting behind—Fls. axill., small.

## ORD. LXXIII.—EUPHORBIACEÆ.

## Gen. I.

*A. Ls. stipuled.*

- i. St. procumb., glauc.—Ls. opp., oblong ; heart-shaped, ent.—Fls. axill., sol.

*B. Ls. not stipuled.*

\* *Ls. alt.—Invol. glands transversely oval.*

- ii. Ls. ob.-ov., serr. upwards—Bracts ob.-cord.—Caps. glab.—Seeds netted.

- iii. Ls. ob.-ov.-lanc., finely serr.—Bracts cord.—Caps. with small warts—Seeds smooth, olive-brown.

- v. 2. *Invol., caps., and seeds smaller—Caps. with prominent warts—Seeds red brown.*

- iv. Hairy—Ls. ellip.-lanc., ent.—Caps. warted, glab.—Seeds smooth.

- v. Pubesc.—Ls. ellip.-lanc., obt., finely serr.—Bracts all ellip., glab.—Caps. warted, hairy.

- vi. Hairy—Ls. lanc., minutely serr.—Bracts ov.-obl., hairy—Caps. not warted, woolly.]

\* \* *Ls. alt.—Invol. bracts lunate, triang. or two horned.*

† *Bracts united.*

- vii. Ls. ob.-ov.-lanc., ent.—Caps. glab.—Seeds smooth.

† † *Bracts separate.*

- viii. Ls. obl.-lanc., dentic.—Bracts cord., mucro.—Caps. scab.—Seeds smooth.]

- ix. Ls. lin., ent., almost glauc.—Bracts obt.—Caps. granulate—Seeds smooth.]

- x. Ls. ellip.-obl., lanc., coriac., imbric.—Bracts broadly cord.—Caps. wrinkled—Seeds smooth.

- xi. Ls. ob.-ov.-lanc., blunt, glauc.—Bracts triang.-cord.—Caps. slightly rough—Seeds rough.

- xii. Ls. lin., blunt, or ac.—Bracts lanc., rough—Seeds rough.

- xiii. Ls. broadly ov., stalked—Bracts ov.—Caps. smooth, with rough keels—Seeds rough.

\* \* \* *Ls. opp.*

- xiv. Ls. lin.-obl., decussate upper cord.—Caps. smooth.]

## Gen. II.

- i. Ls. obl., shining ; stalks rather hairy —Fls. sess.

ORD. LXXIII.—EUPHORBIACEÆ—*cont.*

| Botanical Name.                   | Common Name.                      | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|-----------------------------------|-----------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. III. Mercurialis, L.</b>  | <i>Mercury.</i>                   |                          |         |          |                |                       |
| i. <i>M. perennis, L.</i> . . .   | <i>perennial, or<br/>Dog's M.</i> | Sh. pl. .                | Gr.     | 6-18 in. | P.             | 3-5                   |
| v. 2. <i>ovata, Steud.</i> . . .  | .....                             | .....                    | .....   | .....    | .....          | .....                 |
| ii. <i>M. annua, L.</i> . . . .   | <i>annual M.</i> . . .            | Was. pl..                | Gr.     | 6-18 in. | A.             | 7-11                  |
| v. 2. <i>ambigua, L. fil.</i> . . | .....                             | .....                    | .....   | .....    | .....          | .....                 |

## ORD. LXXIV.—URTICACEÆ.

|                                      |                          |           |       |         |       |       |
|--------------------------------------|--------------------------|-----------|-------|---------|-------|-------|
| <b>Gen. I. Urtica, L.</b>            | <i>Nettle.</i>           |           |       |         |       |       |
| i. <i>U. urens, L.</i> . . . .       | <i>small N.</i> . . . .  | Was. pl.. | ..    | 1-2 ft. | A.    | 6-9   |
| ii. <i>U. dioica, L.</i> . . . .     | <i>great N.</i> . . . .  | Was. pl.. | ..    | 1-4 ft. | P.    | 6-9   |
| iii. <i>U. pilulifera, L.</i> . . .  | <i>Roman N.</i> . . . .  | Was. pl.. | ..    | 1-2 ft. | A.    | 6-9   |
| v. 2. <i>Dodartii, L.</i> . . . .    | .....                    | .....     | ..... | .....   | ..... | ..... |
| <b>Gen. II. Parietaria, L.</b>       | <i>Wall-Pellitory.</i>   |           |       |         |       |       |
| i. <i>P. officinalis, L.</i> . . . . | <i>common W.</i> . . . . | Walls . . | Gr.   | 1-2 ft. | P.    | 6-9   |
| a. <i>diffusa</i> . . . . .          | .....                    | .....     | ..... | .....   | ..... | ..... |
| b. <i>erecta</i> . . . . .           | .....                    | .....     | ..... | .....   | ..... | ..... |
| <b>Gen. III. Humulus, L.</b>         | <i>Hop.</i>              |           |       |         |       |       |
| i. <i>H. Lupulus, L.</i> . . . .     | <i>common H.</i> . . . . | Hedges .  | g Y.  | Cl.     | P.    | 7-9   |

## ORD. LXXV.—ULMACEÆ.

|                                 |                          |         |    |    |    |     |
|---------------------------------|--------------------------|---------|----|----|----|-----|
| <b>Gen. I. Ulmus, L.</b>        | <i>Elm.</i>              |         |    |    |    |     |
| i. <i>U. montana, Su.</i> . .   | <i>Wyck E.</i> . . . .   | Woods . | .. | .. | T. | 4-5 |
| ii. <i>U. campestris, Sm.</i> . | <i>common E.</i> . . . . | Woods . | .. | .. | T. | 4-5 |

## ORD. LXXVI.—CUPULIFERÆ.

|                                    |                           |         |       |       |       |       |
|------------------------------------|---------------------------|---------|-------|-------|-------|-------|
| <b>Gen. I. Quercus, L.</b>         | <i>Oak.</i>               |         |       |       |       |       |
| i. <i>Q. Robur, L.</i> . . . .     | <i>British O.</i> . . . . | Woods . | ..    | ..    | T.    | 4-5   |
| a. <i>pedunculata, Ehr.</i> . .    | .....                     | .....   | ..... | ..... | ..... | ..... |
| b. <i>sessiflora, Sm.</i> . . . .  | .....                     | .....   | ..... | ..... | ..... | ..... |
| <b>Gen. II. Fagus, L.</b>          | <i>Beech.</i>             |         |       |       |       |       |
| i. <i>F. sylvatica, L.</i> . . . . | <i>common B.</i> . . . .  | Woods . | ..    | ..    | T.    | 4-5   |
| <b>Gen. III. Carpinus, L.</b>      | <i>Hornbeam.</i>          |         |       |       |       |       |
| i. <i>C. Betulus, L.</i> . . . .   | <i>common H.</i> . . . .  | Woods . | ..    | ..    | T.    | 5-6   |

ORD. LXXIII.—EUPHORBIACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. III.

- i. St. simp.—Ls. obl.-lanc., hairy—Fert. fls. stalked.

v. 2. *Ls. broader, sess.*

- ii. St. branched—Ls. ov., glab.—Fertile fls. sess.

v. 2. *Ls. lanc.—Fertile and sterile fls. mixed, whorled.—(Jersey!)*

## ORD. LXXIV.—URTICACEÆ.

## Gen. I.

- i. Ls. ellip.—Spikes simp., shorter than the peti.

- ii. Ls. ov.-cord.—Spikes branched, longer than the peti.

iii. Ls. ov., coarsely toothed—Fert. fls. in glob., heads.

v. 2. *Ls. ent.!*

## Gen. II.

- i. Ls. ov.-lanc., three-nerved—Fls. in axill. clusters.

- a. St. prost. or ascend.—Invol. three-flowered.

- b. St. erect—Invol. seven-flowered.

## Gen. III.

- i. St. long, climb., scab.—Ls. opp., 3-5 lobed, rough.

## ORD. LXXV.—ULMACEÆ.

## Gen. I.

- i. Seed in the centre of the sub-orb., or obl. samara.

- ii. Seeds above the centre of ob.-ov. samara.

(*Many varieties of each occur barely distinguishable.*)

## ORD. LXXVI.—CUPULIFERÆ.

## Gen. I.

- i. Ls. ob.-ov., sinu.-lobed—Catk. pend.

- a. Ls. sess.—Pedunc. long.

- b. Ls. stalked—Pedunc. short.

## Gen. II.

- i. Ls. ov., glab., ciliate on margins.

## Gen. III.

- i. Ls. ellip.-ov., doubly serr., pil. beneath

ORD. LXXVI.—CUPULIFERÆ—*cont.*

| Botanical Name.                 | Common Name.           | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------|------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. IV. Corylus, L.</b>     | <i>Hazel.</i>          |                          |         |         |                |                       |
| i. <i>C. Avellana, L.</i> . . . | <i>common H.</i> . . . | Woods .                  | . .     | . .     | T.             | 3-4                   |

## ORD. LXXVII.—BETULACEÆ.

|                                  |                         |            |     |         |      |     |
|----------------------------------|-------------------------|------------|-----|---------|------|-----|
| <b>Gen. I. Alnus, Tourn.</b>     | <i>Alder.</i>           |            |     |         |      |     |
| i. <i>A. glutinosa, Gærtn.</i> . | <i>common A.</i> . . .  | Wet pl. .  | . . | . .     | T.   | 3-4 |
| <b>Gen. II. Betula, L.</b>       | <i>Birch.</i>           |            |     |         |      |     |
| i. <i>B. alba, L.</i> . . . . .  | <i>common B.</i> . . .  | Woods .    | . . | . .     | T.   | 4-5 |
| a. <i>verrucosa</i> . . . . .    | . . . . .               | . . . . .  | . . | . .     | . .  | . . |
| b. <i>glutinosa</i> . . . . .    | . . . . .               | . . . . .  | . . | . .     | . .  | . . |
| v. 2. <i>pubescens</i> . . . . . | . . . . .               | . . . . .  | . . | . .     | . .  | . . |
| ii. <i>B. nana L.</i> . . . . .  | <i>dwarf B.</i> . . . . | Sc.mount.! | . . | 1-2 ft. | Shb. | 5   |

## ORD. LXXVIII.—SALICACEÆ.

|                                    |   |                       |     |          |      |     |
|------------------------------------|---|-----------------------|-----|----------|------|-----|
| <b>Gen. I. Populus, L.</b>         | <i>Poplar.</i>                            |                       |     |          |      |     |
| i. <i>P. alba, L.</i> . . . . .    | <i>great white P.</i> .                   | Moi.woods             | . . | . .      | T.   | 3-4 |
| ii. <i>P. canescens, Sm.</i> . .   | <i>gray P.</i> . . . .                    | Moi.woods<br>S. of E. | . . | . .      | T.   | 3-4 |
| iii. <i>P. tremula, L.</i> . . . . | <i>Aspen</i> . . . . .                    | Moi.woods             | . . | . .      | T.   | 3-4 |
| iv. <i>P. nigra, L.</i> . . . . .  | <i>black P.</i> . . . .                   | Riv. banks            | . . | . .      | T.   | 3-4 |
| <b>Gen. II. Salix, L.</b>          | <i>Willow, Sallow,<br/>Osier, &amp;c.</i> |                       |     |          |      |     |
| i. <i>S. triandra, L.</i> . . . .  | <i>Almond-leaved W.</i>                   | Riv. banks            | . . | 20 ft.   | T.   | 4-5 |
| ii. <i>S. pentandra, L.</i> . . .  | <i>Bay-leaved W.</i> .                    | Riv. banks            | . . | 8-20 ft. | T.   | 5-6 |
| iii. <i>S. fragilis L.</i> . . . . | <i>crack W., or<br/>Withy.</i>            | Marshes.              | . . | 80 ft.   | T.   | 4-5 |
| iv. <i>S. alba, L.</i> . . . . .   | <i>white W.</i> . . . .                   | Marshes.              | . . | 80 ft.   | T.   | 4-5 |
| v. <i>S. Caprea, L.</i> . . . . .  | <i>S., or Goat-Willow</i>                 | Woods .               | . . | 30 ft.   | T.   | 4-5 |
| vi. <i>S. aurita, L.</i> . . . . . | <i>round-eared S.</i> .                   | Moi. thick.           | . . | 2-4 ft.  | Shb. | 4-5 |



ORD. LXXVI.—CUPULIFERÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. IV.

- i. Ls. orb., doubly serr.

## ORD. LXXVII.—BETULACEÆ.

## Gen. I.

- i. Ls. orb.-cun., green on both sides.

## Gen. II.

- i. Tree—Ls. rhomb.-triang., doubly serr.—Fr. broadly winged.  
*a.* Lat. lobes of fruiting scales decurved.  
*b.* Ls. cord. ov.—Lat. lobes of fruiting scales ascending  
*v.* 2. *Ls. and twigs downy.*  
 ii. A bush—Ls. orb.-cren. shortly stalked—Fr. narrowly winged.

## ORD. LXXVIII.—SALICACEÆ.

## Gen. I.

- i. Ls. roundish-cord., cottony beneath; those of the young shoots five-lobed—Stig. (yellow) bipart., with lin. seg.  
 ii. Ls. roundish, toothed, waved, cottony beneath; those of the young shoots ent.—Stig. (purple) 3-4 lobed.  
 iii. Ls. nearly round, acu., glab. beneath—Catk. dense—Sty. bifid.  
 iv. Ls. triang., acum., glab. beneath—Catk. lax—Sty. two-lobed at apex.]

## Gen. II.

- i. Ls. obl.-lanc., glab.—Catk. obl.-ov., stalked, appearing with the ls.; scales persist., glab.—Stam. three—Stig. sess.  
*Vars. Hoffmanniana, Sm.—amygdalina, Sm.—contorta, Crowe.*  
 ii. Ls. ellip.-lanc., gland., shining, pale beneath—Catk. ov.-atten., stalked; with the ls., fragrant; scales obl., decid.—Stam. five—Stig. bifid.  
 iii. Ls. lan., pointed, serr., glab.—Catk. ob.-ov. lanc., stalked, glab.; with the ls.; scales decid.—Stam. two—Stig. bifid.  
*Vars. decipiens, Hoffm.—Russelliana, Sm.*  
 iv. Ls. lanc., acum., silky above and below—Catk. slend., lax, erect, sess.; with the ls.; scales lin., decid.—Sty. short.  
*Vars. cærulea, Sm.—vitellina, Sm.*  
 v. Ls. ov.-ellip., acu., deep green, cottony beneath—Catk. thick, blunt, sess.; before the ls.; scales persist.—Sty. short.  
*Vars. sphacelata, Sm.—cinerea, L. Sp.—aquatica, Sm.—oleifolia, Sm.*  
 vi. Ls. ob.-ov., cren., wrinkled, pubesc. beneath—Catk. lanc., short, sess.; before the ls.; scales persis.—Sty. short.

ORD. LXXVIII.—SALICACEÆ—*cont.*

| Botanical Name.                             | Common Name.                       | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|------------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| vii. <i>S. repens</i> , <i>L.</i> . . .     | <i>dwarf silky W.</i> .            | Heaths .                 | . .     | 1-3 ft.  | Shb.           | 4-5                   |
| viii. <i>S. nigricans</i> , <i>Sm.</i> . .  | <i>dark-leaved S.</i> .            | Riv. banks               | . .     | 6-10 ft. | Shb.           | 4-5                   |
| ix. <i>S. phylicifolia</i> , <i>L.</i> . .  | <i>Tea-leaved W.</i> .             | Mount.str.               | . .     | 6-10 ft. | Shb.           | 4-5                   |
| x. <i>S. viminalis</i> , <i>L.</i> . . .    | <i>Osier</i> . . . . .             | Wet pl. .                | . .     | 30 ft.   | Shb.           | 4-6                   |
| xi. <i>S. lanata</i> , <i>L.</i> . . . .    | <i>woolly broad-<br/>leaved W.</i> | Sc. mount.               | . .     | 1-2 ft.  | Shb.           | 5-6                   |
| xii. <i>S. Lapponum</i> , <i>L.</i> . .     | <i>downy mount W.</i>              | Sc. mount.               | . .     | 2-3 ft.  | Shb.           | 6-7                   |
| xiii. <i>S. Myrsinites</i> , <i>L.</i> . .  | <i>Whortle-leaved<br/>W.</i>       | Sc. mount.               | . .     | 1-2 ft.  | Shb.           | 6-7                   |
| xiv. <i>S. arbuscula</i> , <i>L.</i> . . .  | <i>small Tree W.</i> .             | Sc. mount.               | . .     | 1-2 ft.  | Shb.           | 6-7                   |
| xv. <i>S. herbacea</i> , <i>L.</i> . . . .  | <i>least W.</i> . . . .            | Mount. .                 | . .     | 2-6 in.  | Shb.           | 6-7                   |
| xvi. <i>S. reticulata</i> , <i>L.</i> . . . | <i>reticulate W.</i> . .           | Sc. mount.               | . .     | 1-2 ft.  | Shb.           | 6-7                   |
| xvii. <i>S. purpurea</i> , <i>L.</i> . . .  | <i>purple O.</i> . . . .           | Riv. banks               | . .     | 5-10 ft. | Shb.           | 4-5                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- vii. St. procumb. or ascend.—Ls. small, obl.-lanc., margins recurved, shining above, silky beneath—Catk. cylind.-obl., erect, short, sess.; before the ls.; scales spath., silky—Sty. short.  
*Vars. fusca, L.—prostrata, Sm.—ascendens, Sm.—parviflora, Sm.—argentea, Sm.—rosmarinifolia, L.—incubacea, Sy.—S. herbacea, Ehr., is probably a hybrid between S. repens and S. aurita, and S. spathulata, Willd., is a hairy form of S. herbacea.*
- viii. Ls. ov.-ellip., thin, glauc. beneath, turning black in drying—Catk. ov.-cylind., erect, sess.; scales lin.-obl., pilose—Sty. long.  
*Vars. cotinifolia, Sm.—Forsteriana, Sm.—rupestris, Don.—Andersoniana, Sm.—damascena, Forbes—petraea, And.—hirta, Sm.*
- ix. Ls. ellip.-lanc., glab., shining, glauc. beneath—Catk. sess.; scales lin.-obl., acu.—Sty. distinct.  
*Vars. Davalliana, Sm.—Weigiana, Willd. (Wulfeniana, Sm.)—nitens, G. Anders.—Croweana, Sm.—Dicksoniana, Sm.—tenuior, Borr.—laxiflora, G. Anders.—propinqua, Borr.—tetrapla, Walk.—Borreriana, Sm.—phillyreifolia, Borr.—tenuifolia, Borr.—radicans, Sm.—S. laurina, Sm. (bicolor, Sm.); laxiflora, Borr., is probably a hybrid between S. phyllicifolia and S. caprea.*
- x. Ls. lin.-lanc., silky beneath—Catk. lanc., long, nearly sess.; before the ls.; scales obt., brown—Sty. lin., ent.  
*Vars. Intricata, Leefse—stipularis, Leefse.*  
*S. stipularis, Sm., is probably a hybrid between S. viminalis and S. caprea.*  
*S. Smithiana, Willd. (S. mollissima, Sm.) also probably a hybrid between the same, of which acuminata, Sm.—ferruginea (G. Anders.) and rugosa (Sm.) are varieties.*
- xi. Ls. broadly ov., coriaceous, ent., shaggy—Catk. term., sess., stout, dense; with the ls.; scales obt., with long yellow hairs—Sty. long.
- xii. Ls. ellip.-lanc., silky above, cottony beneath—Catk. sess.; with the ls.; scales acu., with long white hairs—Sty. very long.  
*Vars. arenaria, Sm.—Stuartiana, Sm.—glauc., Sm.*
- xiii. Ls. small, rigid, lanc., with prominent veins—Catk. term. on leafy pedunc.; with the ls.; scales spath.—Sty. long.  
*Vars. procumbens, Forbes (lævis, Hook)—arbutifolia, Sy.—serrata, Sy.*
- xiv. Ls. ov.-lanc., glab., veiny above, finely serr., glauc. beneath—Cat. lat., sess., or leafy pedunc.; before the ls.; scales obt., hairy—Sty. long.  
*Vars. carinata, Sm.—prunifolia, Sm.—venulosa, Sm.—vaccinifolia, Walk. (livida Sm.)—angustifolia, Wulf.*
- xv. Very small; st. underground—Ls. obl. or orb., obt., veined above—Catk., term. on two-leaved pedunc.; with the ls.; scales glab.
- xvi. Small; st. underground—Ls. orb.-obl., strongly veined, glab. above, glauc. beneath—Catk., on long leafy pedunc.; scales ob-ov.
- xvii. Ls. lin.-lanc., thin, gland., serr.—Catk. ov., sess.; before the ls.; very downy; scales small, purple—Stig. ov.  
*Vars. Woollgariana, Borr.—ramulosa, Borr.—Lambertiana, Sm.*  
*S. rubra is a hybrid between S. purpurea and S. viminalis, of which S. Forbyana, Sm., and S. Helix, L., are varieties.*  
*S. Doniana is a hybrid between S. purpurea and S. repens.*  
*S. cuspidata, Schultz, is a hybrid between S. pentandra and S. fragilis.*  
*S. acutifolia, Willd., (S. Daphnoides, Vill.) is not indigenous.*  
*S. undulata, Ehrh., (S. lanceolata, Sm.) is a hybrid between S. triandra and S. viminalis.*

## ORD. LXXIX.—MYRICACEÆ.

| Botanical Name.                 | Common Name.                   | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------|--------------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. I. Myrica, L.</b>       | <i>Sweet-gale, Bog-myrtle.</i> |                          |         |         |                |                       |
| i. <i>M. Gale, L.</i> . . . . . | <i>S. or B.</i> . . . . .      | Mount. &<br>bogs.        | ..      | 2-3 ft. | Shb.           | 6-7                   |

## ORD. LXXX.—CONIFERÆ.

|                                     |                           |           |    |         |      |     |
|-------------------------------------|---------------------------|-----------|----|---------|------|-----|
| <b>Gen. I. Pinus, L.</b>            | <i>Pine, Fir.</i>         |           |    |         |      |     |
| i. <i>P. sylvestris, L.</i> . . . . | <i>Scotch Fir</i> . . . . | Scot. . . | .. | 100 ft. | T.   | 5-6 |
| <b>Gen. II. Juniperus, L.</b>       | <i>Juniper.</i>           |           |    |         |      |     |
| i. <i>J. communis, L.</i> . . . .   | <i>common J.</i> . . . .  | Downs .   | .. | 1-4 ft. | Shb. | 5-6 |
| v. 2. <i>nana, Willd.</i> . . . .   | <i>dwarf J.</i> . . . .   | Mount. .  | .. | ..      | ..   | ..  |
| <b>Gen. III. Taxus, L.</b>          | <i>Yew.</i>               |           |    |         |      |     |
| i. <i>T. baccata, L.</i> . . . . .  | <i>common Y.</i> . . . .  | Mnt. wds. | .. | 50 ft.  | T.   | 3-4 |
| v. 2. <i>fastigiata, Lindl.</i> . . | . . . . .                 | ..        | .. | ..      | ..   | ..  |

## ORD. LXXXI.—ORCHIDACEÆ.

|                                     |                            |                    |           |          |    |     |
|-------------------------------------|----------------------------|--------------------|-----------|----------|----|-----|
| <b>Gen. I. Goodyera, Br.</b>        | <i>Goodyera.</i>           |                    |           |          |    |     |
| i. <i>G. repens, Br.</i> . . . . .  | <i>creeping G.</i> . . . . | Sco. fir<br>woods. | crW.      | 4-8 in.  | P. | 8   |
| <b>Gen. II. Spiranthes, Rich.</b>   | <i>Lady's-tresses.</i>     |                    |           |          |    |     |
| i. <i>S. autumnalis, Rich.</i> . .  | <i>Autumnal L.</i> . . .   | Downs .            | W.        | 4-8 in.  | P. | 8-9 |
| ii. <i>S. æstivalis, Rich.</i> . .  | <i>Summer L.</i> . . . .   | Bogs!<br>S. of E.  | W.        | 6-18 in. | P. | 7-8 |
| iii. <i>S. Gemmipara, Lindl.</i>    | <i>drooping L.</i> . . . . | Mead.<br>Ire.!     | W.        | 6-10 in. | P. | 8-9 |
| <b>Gen. III. Neottia, L.</b>        | <i>Bird's-nest.</i>        |                    |           |          |    |     |
| i. <i>N. Nidus-avis, Rich.</i> . .  | <i>common B.</i> . . . .   | Sh. woods          | Pk.       | 4-10 in. | P. | 6-7 |
| <b>Gen. IV. Listera, Br.</b>        | <i>Tway-blade.</i>         |                    |           |          |    |     |
| i. <i>L. cordata, Br.</i> . . . . . | <i>Heart-leaved T.</i> . . | Turfy<br>moors!    | gr<br>Br. | 4-8 in.  | P. | 6-8 |
| ii. <i>L. ovata, Br.</i> . . . . .  | <i>common T.</i> . . . .   | Moi. pas.          | y Gr.     | 1-2 ft.  | P. | 5-7 |
| <b>Gen. V. Epipactis, Hall.</b>     | <i>Helleborine.</i>        |                    |           |          |    |     |
| i. <i>E. latifolia, Sw.</i> . . . . | <i>broad-leaved H.</i> . . | Ch. woods          | gPu.      | 1-3 ft.  | P. | 7-8 |
| b. <i>media, Fries.</i> . . . . .   | . . . . .                  | ..                 | ..        | ..       | .. | ..  |

## ORD. LXXIX.—MYRICACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. Ls. lanc., serr., broader upwards, fragrant catk., sess., erect.

## ORD. LXXX.—CONIFERÆ.

## Gen. I.

- i. Ls. rigid, in pairs—Cones ov.-acum., stalked.

## Gen. II.

- i. Ls. lin., mucro., ~~three~~ in a whorl, longer than the fr.  
 v. 2. *St. procumb.*—Ls. ~~broad~~ *broader and shorter*—Fr. *longer*.

## Gen. III.

- i. Ls. lin., acum., crowded—Fls. axill., sess.—Fr. roundish.  
 v. 2. *Branches fastigate*—Ls. *scattered*—Fr. *obl.*

## ORD. LXXXI.—ORCHIDACEÆ.

## Gen. I.

- i. Root creeping—Ls. stalked, ov., netted—Sep. and lip ov.-lanc.

## Gen. II.

- i. Rad. ls. in a lat. rosette, ov., ac.—Spike dense; fls. in one rank—Tubers ovoid.  
 ii. Rad. ls. at base of st., obl.-lanc.—Spike lax; fls. in one rank—Tubers cylind.  
 iii. Rad. ls. lin.-lanc.—Spike dense; fls. in three ranks.

## Gen. III.

- i. St. leafless, with brown scales—Lip lin., obt., with two spread. lobes.

## Gen. IV.

- i. St. short, glab.—Ls. cord.—Lip bifid. with two lat. lobes.  
 ii. St. tall, hairy above—Ls. ov.—Lip bifid.

## Gen. V.

- i. Ls. ovate—Bracts mostly longer than fls.—Lower lobe of lip acute, shorter than ovate sep.  
 b. Ls. longer and narrower—Lower lobe of lip triang.-cord., as long as the lanc. sep.

ORD. LXXXI.—ORCHIDACEÆ—*cont.*

| Botanical Name.                                 | Common Name.                      | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|-----------------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| <i>c. purpurata</i> , Sm. . . .                 | . . . .                           | . . . .                  | . .     | . .       | . .            | . .                   |
| <i>d. ovalis</i> , Bab. . . . .                 | . . . .                           | . . . .                  | . .     | . .       | . .            | . .                   |
| ii. <i>E. palustris</i> , Sw. . .               | <i>Marsh H.</i> . . .             | Marshes.                 | W.      | 6-18 in.  | P.             | 7-8                   |
| <b>Gen. VI. Cephalanthera,</b><br><i>Rich.</i>  | <i>Helleborine.</i>               |                          |         |           |                |                       |
| i. <i>C. grandiflora</i> , Bab. .               | <i>large white H.</i> .           | Ch. woods                | C.      | 6-18 in.  | P.             | 5-6                   |
| ii. <i>C. ensifolia</i> , Rich. .               | <i>narrow-leaved H.</i>           | Mount.<br>woods!         | W.      | 6-18 in.  | P.             | 5-6                   |
| iii. <i>C. rubra</i> , Rich. . . .              | <i>purple H.</i> . . .            | Mount.<br>woods!         | puR.    | 6-12 in.  | P.             | 6-7                   |
| <b>Gen. VII. Epipogium,</b><br><i>Gm.</i>       |                                   |                          |         |           |                |                       |
| i. <i>E. Gmelini</i> , Rich. . .                | . . . .                           | . . . .                  | p Y.    | 4-8 in.   | P.             | 8                     |
| <b>Gen. VIII. Corallorhiza,</b><br><i>Hall.</i> | <i>Coral-root.</i>                |                          |         |           |                |                       |
| 1. <i>C. innata</i> , Br. . . . .               | <i>spurless C.</i> . . .          | Bog. wds!<br>Sco.        | y G.    | 6-12 in.  | P.             | 7                     |
| <b>Gen. IX. Orchis, L.</b><br>SEC. I.<br>*      | <i>Orchis</i>                     |                          |         |           |                |                       |
| <i>A.</i>                                       |                                   |                          |         |           |                |                       |
| i. <i>O. Morio</i> , L. . . . .                 | <i>green-winged<br/>Meadow O.</i> | Past. . .                | gPu.    | 6-12 in.  | P.             | 5-6                   |
| ii. <i>O. mascula</i> , L. . . .                | <i>early purple O.</i> .          | Past. . .                | Pu.     | 6-12 in.  | P.             | 4-6                   |
| iii. <i>O. ustulata</i> , L. . . .              | <i>dwarf O.</i> . . . .           | Ch. past.                | puW.    | 4-5 in.   | P.             | 5-6                   |
| iv. <i>O. fusca</i> , Jacq. . . .               | <i>great brown-<br/>winged O.</i> | Ch. past.!<br>Kent.      | gPu.    | 1-2 ft    | P.             | 5-6                   |
| v. <i>O. militaris</i> , L. . . .               | <i>military O.</i> . . .          | Ch. hills!               | Pu.     | 12-18 in. | P.             | 5-6                   |
| v. 2. <i>Simia</i> , Lam. . . .                 | <i>Monkey O.</i> . . .            | Ch. hills!               | . .     | . .       | . .            | . .                   |
| <i>B.</i>                                       |                                   |                          |         |           |                |                       |
| vi. <i>O. laxiflora</i> , Lam. . .              | <i>lax-flowered O.</i> .          | Jersey &<br>Guernsey.    | r Pu.   | 1-2 ft.   | P.             | 5-6                   |
| vii. <i>O. latifolia</i> , L. . . .             | <i>Marsh O.</i> . . . .           | Moi.mead.                | roPu.   | 1-3 ft.   | P.             | 6-7                   |
| v. 2. <i>incarnata</i> , L. . . .               |                                   |                          |         |           |                |                       |
| viii. <i>O. maculata</i> , L. . .               | <i>spotted palmate O.</i>         | Heaths .                 | pPu.    | 6-18 in.  | P.             | 6-8                   |
| SEC. II.  |                                   |                          |         |           |                |                       |
| ix. <i>O. pyramidalis</i> , L. . .              | <i>pyramidal O.</i> . .           | Ch. past.                | Ro.     | 6-18 in.  | P.             | 7-8                   |
| x. <i>O. hircina</i> , Scop. . . .              | <i>Lizard O.</i> . . . .          | Ch. hills!               | puW.    | 1-2 ft.   | P.             | 7-8                   |
| <b>Gen. X. Gymnadenia, Br.</b>                  |                                   |                          |         |           |                |                       |
| i. <i>G. conopsea</i> , Br. . . .               | <i>fragrant G.</i> . . .          | Ch. heaths               | Ro.     | 12-18 in. | P.             | 6-8                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- c. As Var. *δ.*, but st. and ls. tinged with purple, and lower lobe of lip shorter than sep.  
 d. Ls. ov.-lanc.—Fls. small, dingy purple—Lower lobe of lip broader than long, as long as the ov., acute sep.  
 ii. Ls. lanc.—Bracts shorter than fls.—Lower lobe of lip obt.

## Gen. VI.

- i. Fls. creamy white—Ls. ov.—Ovary glab., shorter than bracts.  
 ii. Fls. pure white—Ls. lanc.—Ovary glab., longer than the minute bracts.  
 iii. Fls. rosy purple—Ls. lanc.—Ovary downy.

## Gen. VII.

- i. Leafless—St. swollen at base—Fls. pale yellow, streaked with white.  
 (*Once found at Tedstone, Delamere Forest, Hereford.*)

## Gen. VIII.

- i. Root of thick fleshy fibres—St. with 2-3 lanc., sheathing leaves—Fls. in a lax spike.

## Gen. IX.

SEC. I.—*Pollen-glands divided.*

\* *Tubers of root two, undivided.*

A. *Bracts one-veined.*

- i. Spike lax—Lat. sep. obt., connivent—Spur shorter than germen.  
 ii. Ls. spotted—Spike lax—Lat. sep. acute, reflexed upwards—Spur obt., as long as germen.  
 iii. Spike dense—Seg. of lip deep, lin.; lower one without a point in notch.  
 iv. Spike dense—Lower seg. of lip with a point in notch; lat. sep. obt., connivent, dent., greenish purple.  
 v. Spike dense—Lower seg. of lip with a point in notch; lat. seg. acute, connivent, pale purple.  
 v. 2. *Lat. sep. and lip white—Lobes of lip long, narrow, crimson.*  
       *B. Bracts three-veined.*  
 vi. Ls. lanc.—Spike lax—Lat. sep., reflexed.  
       \* \* *Tubers of root palmate.*  
 vii. Lip indistinctly three-lobed; its sides reflexed—St. hollow—Bracts longer than ovary.  
 v. 2. *Ls. concave at tip, unspotted.*  
 viii. Lip deeply three-lobed, flat—Ls. spotted—St. solid—Bracts shorter than ovary.  
       SEC. II.—*Pollen-glands united.*  
 ix. Spike dense—Sep. spread.—Lip with three equal lobes.  
 x. Spike lax—Sep. connivent—Middle lobe of lip long, lin., twisted.

## Gen. X.

- i. Spike dense; fls. very fragrant—Lat. sep. spread.—Spur long, slender, flexuous

## ORD. LXXXI.—ORCHIDACEÆ—cont.

| Botanical Name.                          | Common Name.                | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|-----------------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| <b>Gen. XI. Habenaria, Br.</b>           | <i>Butterfly-Orchis.</i>    |                          |           |           |                |                       |
| i. <i>H. bifolia, Br.</i> . . .          | <i>lesser B.</i> . . . .    | Moi. mead.               | W.        | 6-18 in.  | P.             | 6-8                   |
| v. 2. <i>chlorantha, Bab.</i> . .        | <i>great B.</i> . . . .     | • • • •                  | • • • •   | • • • •   | • • • •        | • • • •               |
| ii. <i>H. viridis, Br.</i> . . . .       | <i>Frog-O., or green H.</i> | Dry past.                | g W.      | 6-8 in.   | P.             | 6-8                   |
| iii. <i>H. albida, Br.</i> . . . .       | <i>small white H.</i> .     | Mnt. past.               | W.        | 6-12 in.  | P.             | 6-8                   |
| <b>Gen. XII. Aceras, Br.</b>             | <i>Man Orchis.</i>          |                          |           |           |                |                       |
| i. <i>A. anthropophora, Br.</i>          | <i>green M.</i> . . . .     | Ch. past.                | g Y.      | 6-12 in.  | P.             | 6-7                   |
| <b>Gen. XIII. Neotinea, Reich., fil.</b> |                             |                          |           |           |                |                       |
| i. <i>N. intacta</i> . . . . .           | • • • •                     | Ch. past. !<br>Galway.   | Pk.       | 4-10 in.  | P.             | 6-7                   |
| <b>Gen. XIV. Herminium, Br.</b>          | <i>Musk Orchis.</i>         |                          |           |           |                |                       |
| i. <i>H. monorchis, Br.</i> . .          | <i>green M.</i> . . . .     | Ch. past.                | Gr.       | 4-6 in.   | P.             | 6-7                   |
| <b>Gen. XV. Ophrys, L.</b>               | <i>Insect Orchis.</i>       |                          |           |           |                |                       |
| i. <i>O. apifera, Huds.</i> . .          | <i>Bee O.</i> . . . . .     | Ch. past.                | Pu.       | 6-12 in.  | P.             | 6-7                   |
| v. 2. <i>arachnites, Willd.</i> .        | <i>late Spider O.</i> . .   | Ch. downs !              | • •       | • •       | • •            | • •                   |
| ii. <i>O. aranifera, Huds.</i> .         | <i>Spider O.</i> . . . .    | Ch. past. !              | pu<br>Br. | 6-12 in.  | P.             | 4-5                   |
| v. 2. <i>fucifera</i> . . . . .          | • • • •                     | • • • •                  | • •       | • •       | • •            | • •                   |
| iii. <i>O. muscifera, Huds.</i> .        | <i>Fly O.</i> . . . . .     | Ch. past.                | b Pu.     | 6-12 in.  | P.             | 5-7                   |
| <b>Gen. XVI. Malaxis, Sw.</b>            | <i>Bog Orchis.</i>          |                          |           |           |                |                       |
| i. <i>M. paludosa, Sw.</i> . .           | <i>Bog O.</i> . . . . .     | Bogs !<br>Scot.          | Gr.       | 2-4 in.   | P.             | 7-9                   |
| <b>Gen. XVII. Liparis, Rich.</b>         |                             |                          |           |           |                |                       |
| i. <i>L. Loeselii, Rich.</i> . .         | <i>two-leaved L.</i> . .    | San. bogs<br>E. of E. !  | y G.      | 6-8 in.   | P.             | 7-8                   |
| <b>Gen. XVIII. Cypripedium, L.</b>       | <i>Lady's Slipper.</i>      |                          |           |           |                |                       |
| i. <i>C. calceolus, L.</i> . . .         | <i>common L.</i> . . . .    | Woods !<br>N. of E.      | y Br.     | 12-18 in. | P.             | 5-6                   |

## ORD. LXXXII.—IRIDACEÆ.

|                                   |                                |            |     |         |    |     |
|-----------------------------------|--------------------------------|------------|-----|---------|----|-----|
| <b>Gen. I. Iris, L.</b>           | <i>Iris, Flower-de-luce.</i>   |            |     |         |    |     |
| i. <i>I. foetidissima, L.</i> . . | <i>foetid I., or Glad-don.</i> | Thick. ! . | Pu. | 2-3 ft. | P. | 5-7 |
| ii. <i>I. Pseudacorus, L.</i> . . | <i>yellow I., or Flag.</i>     | Wet pl. .  | Y.  | 2-3 ft. | P. | 5-6 |



ORD. LXXXI.—ORCHIDACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XI.

- i. Ls. two—Sep. spread.—Spur long—Lip entire—Anther cells parallel.
- v. 2. *Larger—Fls. greener—Anther cells diverging at base.*
- ii. Ls. several—Fls. green—Sep. connivent—Spur short—Lip lin., bifid, greenish brown.
- iii. Ls. several—Fls. white—Sep. connivent—Lip acutely three-lobed.

## Gen. XII.

- i. Spike lax—Lat. sep. ovate, connivent, green—Lip three-part; lobes lin., lower one bifid.

## Gen. XIII.

- i. Spike dense—Ls. ellip.-obl., spotted—Lat. sep. and pet. connivent—Lip three-lobed.

## Gen. XIV.

- i. Spike lax, slender—Fls. small—Sep. broad; Pet. narrower—Lip three-lobed.

## Gen. XV.

- i. Pet. downy, lin.—Sep. pink inside—Lip tumid., four-lobed, not longer than sep. with an intermediate, acute, reflexed appendage in notch.
- v. 2. *Pet. deltoid—Lip longer than sep.—Appendage of notch cord., flat.—(Kent.)*
- ii. Pet. glab., lin.—Sep. yellowish green inside—Lip. tumid., four-lobed, without an intermediate appendage in notch.
- v. 2. *Pet. rough inside—Lip undivided, convex.*
- iii. Pet. filiform—Sep. yellowish green—Lip oblong, three-lobed; middle lobe bifid.

## Gen. XVI.

- i. Spike dense—Ls. 3-5, ob.-ov., concave, papillose at tip—Lip ent., acute, concave.

## Gen. XVII.

- i. Spike lax—St. triang.—Ls. two, obl.-lanc., keeled—Lip ent., ob.-ov.

## Gen. XVIII.

- i. St. leafy—Ls. obl., ribbed—Fls. 1-2, large—Sep. and pet. brown; lip yellow, inflated.

## ORD. LXXXII.—IRIDACEÆ.

## Gen. I.

- i. St. angled—Fls. livid, purple.
- ii. St. round—Fls. yell.

ORD. LXXXII.—IRIDACEÆ—*cont.*

| Botanical Name.                       | Common Name.                         | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------------|--------------------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. II. Gladiolus, L.</b>         | <i>Gladiolus, or Corn-<br/>flag.</i> |                          |         |          |                |                       |
| i. <i>G. communis, L.</i> . . .       | <i>common G., or C.</i>              | New<br>Forest!           | Cr.     | 2-3 ft.  | P.             | 6-7                   |
| <b>Gen. III. Sisyrinchium,<br/>L.</b> |                                      |                          |         |          |                |                       |
| [i. <i>S. anceps, Lam.</i> . . .      | . . .                                | Galway!                  | B.      | 6-18 in. | P.             | 7-8                   |
| <b>Gen. IV. Trichonema,<br/>Ker.</b>  |                                      |                          |         |          |                |                       |
| i. <i>T. Columnæ, Reich.</i> . . . .  | . . . .                              | Channel<br>Islands!      | b Pu.   | 2-4 in.  | P.             | 3-4                   |
| <b>Gen. V. Crocus, L.</b>             | <i>Crocus.</i>                       |                          |         |          |                |                       |
| [i. <i>C. vernus, Willd.</i> . . .    | <i>purple Spring C.</i>              | Mead.! .                 | Vi.     | 2-6 in.  | P.             | 3-4                   |
| ii. <i>C. nudiflorus, Sm.</i> . . .   | <i>naked-flowered C.</i>             | Mead.! .                 | Pu.     | 2-6 in.  | P.             | 9-10                  |

## ORD. LXXXIII.—AMARYLLIDACEÆ.

|  |                                   |               |      |           |    |     |
|--|-----------------------------------|---------------|------|-----------|----|-----|
| <b>Gen. I. Narcissus, L.</b>           | <i>Narcissus, Daffo-<br/>dil.</i> |               |      |           |    |     |
| [i. <i>N. biflorus, Curt.</i> . . .    | <i>pale N.</i> . . . .            | San. fie.!    | p Y. | 12-18 in. | P. | 4-5 |
| ii. <i>N. pseudo-narcissus,<br/>L.</i> | <i>common D.</i> . . . .          | Moi. wds.     | Y.   | 12-18 in. | P. | 3-4 |
| <b>Gen. II. Galanthus, L.</b>          | <i>Snow-drop.</i>                 |               |      |           |    |     |
| i. <i>G. nivalis, L.</i> . . . .       | <i>common S.</i> . . . .          | Woods .       | W.   | 6-10 in.  | P. | 2-3 |
| <b>Gen. III. Leucojum, L.</b>          | <i>Snow-flake.</i>                |               |      |           |    |     |
| [i. <i>L. vernal, L.</i> . . . .       | <i>Spring S.</i> . . . .          | Copses! .     | g W. | 12-18 in. | P. | 4-5 |
| ii. <i>L. æstivum, L.</i> . . . .      | <i>Summer S.</i> . . . .          | Wet<br>mead.! | g W. | 1-2 ft.   | P. | 5-7 |

## ORD. LXXXIV.—LILIACEÆ.

|                                      |                           |                 |     |         |    |     |
|--------------------------------------|---------------------------|-----------------|-----|---------|----|-----|
| <b>Gen. I. Lilium, L.</b>            | <i>Martagon Lily.</i>     |                 |     |         |    |     |
| [i. <i>L. martagon, L.</i> . . . .   | <i>purple M. L.</i> . . . | Mickle-<br>ham! | Pu. | 2-3 ft. | P. | 7-8 |
| <b>Gen. II. Tulipa, L.</b>           | <i>Tulip.</i>             |                 |     |         |    |     |
| [i. <i>T. sylvestris, L.</i> . . . . | <i>wild Tulip</i> . . . . | Ch. pits!       | Y.  | 1-2 ft. | P. | 4-5 |

ORD. LXXXII.—IRIDACEÆ—*cont.*

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CHARACTERISTICS OF SPECIES AND VARIETIES.

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Gen. II.

- i. Ls. glauc., ensi.—Fls. unilat, crim.-purp.

Gen. III.

- i. Ls. rad., ensi.—Scape two-edged—Fls. umbell.]

Gen. IV.

- i. Ls. rad., fili., furrowed—Scape one-flowered, drooping.

Gen. V.

- i. Fls. vernal—Stig. three fid. ; lobes cuneate.]  
ii. Fls. autumn—Stig. deeply laciniate.  
(Several other species of *Crocus* are naturalized in various parts of England as *C. minimus*, *C. aureus*, *C. sativus*, &c. ; but *C. nudiflorus* is the only one which has any claim to be truly indigenous.)
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ORD. LXXXIII.—AMARYLLIDACEÆ.

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Gen. I.

- i. Ls. keeled—St. 1-3 flowered—Fls. salver-shaped.]  
ii. Ls. flat—St. one-flowered—Fls. campan.  
(Several other species have been naturalized in various parts of England, but only *N. pseudo-narcissus* has any claim to be indigenous.)

Gen. II.

- i. Ls. glauc., keeled—Fls. sol., drooping.

Gen. III.

- i. Fls. in spring—St. 1-2 flowered.]  
ii. Fls. in summer—St. many-flowered.
- 

ORD. LXXXIV.—LILIACEÆ.

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Gen. I.

- i. Ls. whorled, ellip.-lanc.—Fls. drooping ; perianth reflexed.]

Gen. II.

- i. Ls. lin.-lanc.—Fls. sub-erect—Seg. of perianth ellip.-lanc., bearded.]

## ORD. LXXXIV.—LILIACEÆ—cont.

| Botanical Name.                            | Common Name.                            | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|---|--------------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. III. Fritillaria, L.</b>           | <i>Fritillary.</i>                      |                          |         |           |                |                       |
| i. <i>F. meleagris, L.</i> . . .           | <i>common F., or<br/>Snake's-head.</i>  | Past.! . .               | brPu.   | 6-12 in.  | P.             | 5-6                   |
| <b>Gen. IV. Allium, L.</b>                 | <i>Onion, Leek,<br/>Garlic, &amp;c.</i> |                          |         |           |                |                       |
| *<br>A.                                    |   |                          |         |           |                |                       |
| [i. <i>A. ampeloprasum, L.</i> . . .       | <i>wild Leek</i> . . . .                | Rocky pl.                | gW.     | 3-4 ft.   | P.             | 7-8                   |
| v. 2. <i>Babingtonii, Borr.</i> . . .      |   |                          |         |           |                |                       |
| ii. <i>A. Scorodoprasum, L.</i> . . .      | <i>Sand G.</i> . . . .                  | Sand. wds.<br>N. of E.   | rPu.    | 2-3 ft.   | P.             | 5-7                   |
| B.   |   |                          |         |           |                |                       |
| iii. <i>A. oleraceum, L.</i> . . .         | <i>Field G.</i> . . . .                 | Waysides!                | brW.    | 10-18 in. | P.             | 7-8                   |
| v. 2. <i>carinatum, Sm.</i> . . .          | . . . . .                               | . . . . .                | . . .   | . . .     | . . .          | . . .                 |
| C.   |   |                          |         |           |                |                       |
| iv. <i>A. vineale, L.</i> . . . .          | <i>Crow Garlic.</i> . .                 | Was. pl.                 | Pk.     | 1½-2 ft.  | P.             | 6-7                   |
| v. 2. <i>compactum, Thuill.</i> . . .      |   |                          |         |           |                |                       |
| v. <i>A. sphaerocephalum,</i><br><i>L.</i> | <i>small round-<br/>headed G.</i>       | Bristol,<br>Jersey!      | rPu.    | 1½-2 ft.  | P.             | 6-7                   |
| vi. <i>A. Schoenoprasum, L.</i> . . .      | <i>Chives</i> . . . . .                 | Rock.pas.!               | pPu.    | 6-12 in.  | P.             | 6-7                   |
| v. 2. <i>sibiricum, L.</i> . . . .         | . . . . .                               | . . . . .                | . . .   | . . .     | . . .          | . . .                 |
| * *  |   |                          |         |           |                |                       |
| vii. <i>A. ursinum, L.</i> . . . .         | <i>broad-leaved G., or<br/>Ransoms.</i> | Woods .                  | W.      | 6-12 in.  | P.             | 4-6                   |
| viii. <i>A. triquetrum, L.</i> . . .       | <i>triangular stalked<br/>G.</i>        | Guernsey!                | W.      | 10-18 in. | P.             | 4-6                   |
| <b>Gen. V. Gagea, Salisb.</b>              | <i>Gagea.</i>                           |                          |         |           |                |                       |
| i. <i>G. lutea, Ker.</i> . . . .           | <i>yellow G.</i> . . . .                | Woods!                   | Y.      | 6-8 in.   | P.             | 3-4                   |
| <b>Gen. VI. Ornithogalum, L.</b>           | <i>Star of Bethlehem.</i>               |                          |         |           |                |                       |
| i. <i>O. pyrenaicum, L.</i> . . .          | <i>spiked S.</i> . . . .                | Copses!                  | gW.     | 1½-2 ft.  | P.             | 6-7                   |
| [ii. <i>O. nutans, L.</i> . . . .          | <i>drooping S.</i> . . . .              | Copses!                  | W.      | 8-12 in.  | P.             | 4-5                   |
| [iii. <i>O. umbellatum, L.</i> . . .       | <i>common S.</i> . . . .                | Copses .                 | W.      | 8-12 in.  | P.             | 4-5                   |
| <b>Gen. VII Scilla, L.</b>                 | <i>Squill.</i>                          |                          |         |           |                |                       |
| i. <i>S. verna, Huds.</i> . . . .          | <i>vernal S.</i> . . . .                | Rocky<br>past.!          | B.      | 4-6 in.   | P.             | 4-5                   |
| ii. <i>S. autumnalis, L.</i> . . .         | <i>autumnal S.</i> . .                  | Dry past.                | puB.    | 4-6 in.   | P.             | 8-9                   |
| <b>Gen. VIII. Hyacinthus, L.</b>           | <i>Blue-bell, Wild<br/>Hyacinth.</i>    |                          |         |           |                |                       |
| i. <i>H. nonscriptus, L.</i> . . .         | <i>Blue-bell, or W.</i> .               | Woods .                  | B.      | 6-18 in.  | P.             | 4-6                   |
| <b>Gen. IX. Muscari, Tourn.</b>            | <i>Grape-Hyacinth.</i>                  |                          |         |           |                |                       |
| i. <i>M. racemosum, Mill.</i> . . .        | <i>Starch G.</i> . . . .                | Sand. fie.<br>E. of E.   | B.      | 6-12 in.  | P.             | 5-6                   |
| <b>Gen. X. Lloydia, Salisb.</b>            |   |                          |         |           |                |                       |
| i. <i>L. serotina, Reich.</i> . . .        | <i>Mountain L.</i> . .                  | Welsh<br>mount.!         | W.      | 2-6 in.   | P.             | 6-7                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. III.**

- i. Ls. lin.-lanc., ent.—Fls. sol., drooping—Points of perianth inflexed.

**Gen. IV.**

\* *Stem leafy.*

*A. Ls. flat.*

- i. Ls. lin., keeled; sheaths cylind.—Umbels compact; fls. many; bulbs o.; sta exerted.
- v. 2. *Umbels irregular, with few flowers and many bulbs.]*
- ii. Ls. lin., flat; sheaths two-edged—Sta. included.
- B. Ls. fleshy.*
- iii. Ls. grooved above, ribbed beneath—Umbels lax, bulbiferous.
- v. 2. *Ls. thick, nearly flat.—(N. of E.)*
- C. Ls. fistulous.*
- iv. Umbels bulbiferous.
- v. 2. *Umbels compact, bearing bulbs only.*
- v. Umbels without bulbs—Stam. exerted; the alternate filaments three-cleft.
- vi. Umbels without bulbs—Stam. included, all simp.
- v. 2. *Larger—Ls. spreading, arching.—(Cornwall!)*
- \* \* *Ls. all radical.*
- vii. Ls. ov.-lanc.—Stem bluntly triang.
- viii. Ls. lin., keeled—Stem acutely triang

**Gen. V.**

- i. St. ang., shorter than the lin.-lanc. ls.—Fls. umbell.

**Gen. VI.**

- i. Ls. vernal—Fls. small, erect, in a long raceme.
- ii. Fls. drooping in a pend. raceme—Pedunc. shorter than the bracts.]
- iii. Fls. erect, corymbose—Pedunc. longer than the bracts.]

**Gen. VII.**

- i. Ls. channelled—Rac. few-flowered, corymb.—Bracts lanc.
- ii. Ls. lin.—Rac. lax—Bracts o.

**Gen. VIII.**

- i. Ls. long, acum., channelled—Fls. drooping.

**Gen. IX.**

- i. Ls. lin., flaccid, keeled, longer than st.—Fls. crowded, nodding.

**Gen. X.**

- i. Ls. semi-cylind.; st. ls. sheathing—Fls. sol.

ORD. LXXXIV.—LILIACEÆ—*cont.*

| Botanical Name.                            | Common Name.               | Soil<br>or<br>Situation.        | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--|----------------------------|---------------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. XI. Simethis, Kunth.</b>           |                            |                                 |         |          |                |                       |
| i. <i>S. bicolor, Kunth.</i> . .           | <i>variegated S.</i> . .   | Fir woods!<br>Bourne-<br>mouth. | Pu.     | 6-18 in. | P.             | 5-6                   |
| <b>Gen. XII. Asparagus, L.</b>             | <i>Asparagus.</i>          |                                 |         |          |                |                       |
| i. <i>A. officinalis, L.</i> . . .         | <i>common A.</i> . . .     | Sea coast!                      | y W.    | 1-2 ft.  | P.             | 6-8                   |
| <b>Gen. XIII. Ruscus, L.</b>               | <i>Butcher's Broom.</i>    |                                 |         |          |                |                       |
| i. <i>R. aculeatus, L.</i> . . .           | <i>common B.</i> . . .     | Heaths!                         | W.      | 1-2 ft.  | Shb.           | 3-4                   |
| <b>Gen. XIV. Maianthe-<br/>mum, Mœnch.</b> | <i>May Lily.</i>           |                                 |         |          |                |                       |
| i. <i>M. bifolium, DC.</i> . .             | <i>two-leaved M.</i> . .   | Woods!                          | . .     | 4-8 in.  | P.             | 5-6                   |
| <b>Gen. XV. Convallaria, L.</b>            | <i>Lily of the Valley.</i> |                                 |         |          |                |                       |
| i. <i>C. majalis, L.</i> . . . .           | <i>common L.</i> . . . .   | Woods!                          | W.      | 6-8 in.  | P.             | 5-6                   |
| <b>Gen. XVI. Polygonatum, Tourn.</b>       | <i>Solomon's Seal.</i>     |                                 |         |          |                |                       |
| i. <i>P. verticillatum, All.</i> .         | <i>narrow-leaved S.</i>    | Woods!                          | G.      | 2-3 ft.  | P.             | 6-7                   |
| ii. <i>P. multiflorum, All.</i> .          | <i>common S.</i> . . .     | Woods!                          | g W.    | 2-3 ft.  | P.             | 6-7                   |
| iii. <i>P. officinale, All.</i> . .        | <i>angular S.</i> . . .    | Woods!                          | g W.    | 6-12 in. | P.             | 5-6                   |

## ORD. LXXXV.—TRILLIACEÆ.

|                                    |                        |         |      |          |    |     |
|------------------------------------|------------------------|---------|------|----------|----|-----|
| <b>Gen. I. Paris, L.</b>           | <i>Herb-Paris.</i>     |         |      |          |    |     |
| i. <i>P. quadrifolia, L.</i> . . . | <i>common H.</i> . . . | Woods . | g W. | 6-12 in. | P. | 5-6 |

## ORD. LXXXVI.—DIOSCOREACEÆ.

|                                   |                          |          |      |     |    |     |
|-----------------------------------|--------------------------|----------|------|-----|----|-----|
| <b>Gen. I. Tamus, L.</b>          | <i>Black Bryony.</i>     |          |      |     |    |     |
| i. <i>T. communis, L.</i> . . . . | <i>common B.</i> . . . . | Hedges . | y G. | Cl. | P. | 5-6 |

## ORD. LXXXVII.—MELANTHACEÆ.

|                                  |                        |          |       |         |    |      |
|----------------------------------|------------------------|----------|-------|---------|----|------|
| <b>Gen. I. Colchicum, L.</b>     | <i>Meadow Saffron.</i> |          |       |         |    |      |
| i. <i>C. autumnale, L.</i> . . . | <i>common M.</i> . . . | Mead.! . | p Pu. | 2-6 in. | P. | 8-10 |

ORD. LXXXIV.—LILIACEÆ—*cont.*

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CHARACTERISTICS OF SPECIES AND VARIETIES.

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Gen. XI.

- i. Ls. lin., recurved—Scape dichotomously branched—Fls. corymb.

Gen. XII.

- i. St. erect, much branched—Ls. setaceous, fasciculate.

Gen. XIII.

- i. St. branched, rigid—Ls. ov.-acum., rigid, evergreen, with fl. in centre.

Gen. XIV.

- i. Ls. two, triang.-cord., alt., stalked—Rac. spicate.

Gen. XV.

- i. Ls. two, rad., ov.-lanc.—Fls. nodding, fragrant.

Gen. XVI.

- i. St. ang.—Ls. lin.-lanc., whorled.  
ii. St. round—Ls. ellip.-lanc.—Fila. hairy.  
iii. St. ang.—Ls. ellip.-lanc.—Fila. glab.
- 
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ORD. LXXXV.—TRILLIACEÆ.

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Gen. I.

- i. Ls. ov., four or five in a whorl, at summit of st.—Fls. sol., stalked.
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ORD. LXXXVI.—DIOSCOREACEÆ.

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Gen. I.

- i. St. long, twining—Ls. cord., acute.
- 
- 

ORD. LXXXVII.—MELANTHACEÆ.

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Gen. I.

- i. Ls. lanc., erect, vernal—Fls. autumnal.

## ORD. LXXXVII.—MELANTHACEÆ—cont.

| Botanical Name.   | Common Name.  | Soil or Situation. | Colour. | Growth. | Duration. | Time of flowering. |
|---|---|--------------------|---------|---------|-----------|--------------------|
| <b>Gen. II. Tofieldia, Huds.</b><br>i. <i>T. palustris, Huds.</i> . . | <i>Scottish-Asphodel.</i><br><i>Mount S.-A.</i> . . | Mount. bogs.       | p G.    | 4-8 in. | P.        | 7-8                |

## ORD. LXXXVIII.—HYDROCHARIDACEÆ.

|  |  |              |      |         |    |      |
|--|--|--------------|------|---------|----|------|
| <b>Gen. I. Hydrocharis, L.</b><br>i. <i>H. Morsus-ranæ, L.</i> . .   | <i>Frog-bit.</i><br><i>common F.</i> . . .       | Ponds .      | W.   | Fl.     | P. | 7-8  |
| <b>Gen. II. Elodea, Rich.</b><br>[i. <i>E. Canadensis, Rich.</i> . . | <i>Water-thyme.</i><br><i>long-leaved W.</i> .   | Streams, &c. | gPu. | Fl.     | P. | 7-10 |
| <b>Gen. III. Stratiotes, L.</b><br>i. <i>S. aloides, L.</i> . . . .  | <i>Water-Soldier.</i><br><i>Water-S.</i> . . . . | Ponds .      | W.   | 4-6 in. | P. | 7-8  |

## ORD. LXXXIX.—ALISMACEÆ.

|   |  |                   |      |           |    |     |
|---|--|-------------------|------|-----------|----|-----|
| <b>Gen. I. Alisma, L.</b><br>i. <i>A. Plantago, L.</i> . . . .        | <i>Water-Plantain.</i><br><i>great W.</i> . . . .  | Ditches, &c.      | pRo. | 1-3 ft.   | P. | 6-8 |
| v. 2. <i>lanceolata, With.</i> . .                                    |  |                   |      |           |    |     |
| ii. <i>A. ranunculoides, L.</i> . .                                   | <i>lesser W.</i> . . . .                           | Ditches .         | pRo. | 6-18 in.  | P. | 5-9 |
| v. 2. <i>repens, Dav.</i> . . . .                                     |  |                   |      |           |    |     |
| iii. <i>A. natans, L.</i> . . . .                                     | <i>floating W.</i> . . . .                         | Lakes, N. of E.!  | W.   | Fl.       | P. | 7-8 |
| <b>Gen. II. Actinocarpus, Br.</b><br>i. <i>A. Damasonium, Br.</i> . . | <i>Star-fruit.</i><br><i>common S.</i> . . . .     | Ditches! S. of E. | W.   | 4-6 in.   | P. | 5-7 |
| <b>Gen. III. Sagittaria, L.</b><br>i. <i>S. sagittifolia, L.</i> . .  | <i>Arrow-head.</i><br><i>common A.</i> . . . .     | Ditches .         | W.   | 6-18 in.  | P. | 7-9 |
| <b>Gen. IV. Butomus, L.</b><br>i. <i>B. umbellatus, L.</i> . .        | <i>Flowering Rush.</i><br><i>common F.</i> . . . . | Ditches .         | Ro.  | 3-4 ft.   | P. | 6-7 |
| <b>Gen. V. Triglochin, L.</b><br>i. <i>T. maritimum, L.</i> . .       | <i>Arrow-grass.</i><br><i>Sea-side A.</i> . . . .  | Salt mar.         | Gr.  | 10-12 in. | P. | 5-6 |
| ii. <i>T. palustre, L.</i> . . . .                                    | <i>Marsh A.</i> . . . .                            | Mar. . .          | Gr.  | 6-18 in.  | P. | 6-8 |



ORD. LXXXVII.—MELANTHACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. II.

- i. Ls. rad., lin.—St. slender—Fls. in an ovate spike.

## ORD. LXXXVIII.—HYDROCHARIDACEÆ.

## Gen. I.

- i. Ls. reni., stalked, ent.—Fls. delicate white, umbellate.

## Gen. II.

- i. Ls. lin., 3-4 in a whorl—St. brittle, rooting at joints.]

## Gen. III.

- i. Ls. sword-shaped, spinous, serrate.

## ORD. LXXXIX.—ALISMACEÆ.

## Gen. I.

- i. Ls. all rad., ov.-lanc., sub-cord.—Scape panicled with compound branches—Fr. compressed, obt.  
*v.* 2. *Ls. lanc., narrowed at base.*  
 ii. Ls. all rad., lin.-lanc.—Scape with simple branches—Fr. ribbed, acute.  
*v.* 2. *Fls. larger—Scape procumb., rooting.*  
 iii. Rad. ls. lin., sess. ; flo. ls. ellip., obt.—Pedunc. simp., from the st. joints.

## Gen. II.

- i. Ls. rad., ellip., five-ribbed, long-stalked—Scape with 2-3 whorls of fls.

## Gen. III.

- i. Ls. arrow-shaped—Scape with 3-5 distant whorls.

## Gen. IV.

- i. Ls. rad., lin., trigonous—Scape terete, longer than ls.—Fls. umbell. with a three-leaved invol.

## Gen. V.

- i. Ls. rad., lin., fleshy—Fls. in a lax, simp. spike—Fr. ovate, six-celled.  
 ii. Similar but smaller—Fr. lin., ang., three-celled.

ORD. LXXXIX.—ALISMACEÆ—*cont.*

| Botanical Name.                   | Common Name.            | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|-----------------------------------|-------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. VI. Scheuchzeria, L.</b>  |                         |                          |         |         |                |                       |
| i. <i>S. palustris</i> , L. . . . | <i>Marsh S.</i> . . . . | Mar.! . . .              | Gr.     | 6-8 in. | P.             | 7-8                   |

## ORD. XC.—NAIADACEÆ.

|   |                             |                   |    |     |    |     |
|---|-----------------------------|-------------------|----|-----|----|-----|
| <b>Gen. I. Potamogeton, L.</b>            |                             |                   |    |     |    |     |
| SEC. I.                                   |                             |                   |    |     |    |     |
| A.  |                             |                   |    |     |    |     |
| i. <i>P. densus</i> , L. . . . .          | <i>opposite-leaved P.</i>   | Ditches .         | .. | Fl. | P. | 6-7 |
| B.  |                             |                   |    |     |    |     |
| ii. <i>P. pectinatus</i> , L. . . .       | <i>Fennel-leaved P.</i>     | Streams .         | .. | Fl. | P. | 6-7 |
| v. 2. <i>flabellatus</i> , Bab. . . .     |                             |                   |    |     |    |     |
| iii. <i>P. filiformis</i> , Pers. . .     | <i>slender-leaved P.</i>    | Lakes! .          | .. | Fl. | P. | 6-7 |
| C.  |                             |                   |    |     |    |     |
| iv. <i>P. trichioides</i> , Cham. .       | <i>hair-like P.</i> . . . . | Ponds,<br>Bexley! | .. | Fl. | P. | 7-8 |
| v. <i>P. pusillus</i> , L. . . . .        | <i>small P.</i> . . . .     | Ditches .         | .. | Fl. | P. | 6-7 |
| vi. <i>P. compressus</i> , L. . . .       | .. . . .                    | Ditches .         | .. | Fl. | P. | 6-7 |
| vii. <i>P. gramineus</i> , Auct. . .      | <i>grassy P.</i> . . . .    | Ditches .         | .. | Fl. | P. | 6-7 |
| a. <i>obtusifolius</i> , M. & K. . .      | .. . . .                    | .. . . .          | .. | ..  | .. | ..  |
| b. <i>acutifolius</i> , L. & K. . . .     | .. . . .                    | .. . . .          | .. | ..  | .. | ..  |
| c. <i>zosterifolius</i> , Schum. . .      | .. . . .                    | .. . . .          | .. | ..  | .. | ..  |
| D.  |                             |                   |    |     |    |     |
| viii. <i>P. crispus</i> , L. . . . .      | <i>curly P.</i> . . . .     | Ditches .         | .. | Fl. | P. | 6-7 |
| ix. <i>P. perfoliatus</i> , L. . . .      | <i>perfoliate P.</i> . . .  | Ditches .         | .. | Fl. | P. | 6-7 |
| x. <i>P. lucens</i> , L. . . . .          | <i>shining P.</i> . . . .   | Lakes . .         | .. | Fl. | P. | 6-7 |
| b. <i>acuminatus</i> , Schum. . . .       |                             |                   |    |     |    |     |
| c. <i>decipiens</i> , Nolte . . . . .     |                             |                   |    |     |    |     |
| xi. <i>P. prælongus</i> , Wulf. . .       | <i>long-stalked P.</i> . .  | Lakes! .          | .. | Fl. | P. | 7-8 |
| SEC. II.                                  |                             |                   |    |     |    |     |
| A.  |                             |                   |    |     |    |     |
| xii. <i>P. heterophyllus</i> ,<br>Schreb. | <i>various-leaved P.</i>    | Ditches .         | .. | Fl. | P. | 6-7 |
| a. <i>heterophyllus</i> . . . . .         | .. . . .                    | .. . . .          | .. | ..  | .. | ..  |
| b. <i>nitens</i> , Weber . . . . .        | .. . . .                    | .. . . .          | .. | ..  | .. | ..  |
| c. <i>lanceolatus</i> , Sm. . . . .       | .. . . .                    | Anglesea!         | .. | ..  | .. | ..  |
| xiii. <i>P. rufescens</i> , Schrad.       | <i>reddish P.</i> . . . .   | Ditches!          | .. | Fl. | P. | 7   |
| B.  |                             |                   |    |     |    |     |
| xiv. <i>P. natans</i> , L. . . . .        | <i>broad-leaved P.</i> . .  | Ponds . .         | .. | Fl. | P. | 6-7 |
| xv. <i>P. polygonifolius</i> ,<br>Pourr.  | .. . . .                    | Ponds . .         | .. | Fl. | P. | 6-7 |
| xvi. <i>P. plantagineus</i> , Duacr.      | <i>Plantain-leaved</i><br>P | Peaty<br>ditches  | .. | Fl. | P. | 6-7 |

ORD. IXXXIX.—ALISMACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. VI.

- i. Ls. few, alt., semi-cylind.—Scape with a term. rac. of about five fis.

## ORD. XC.—NAIADACEÆ.

## Gen. I.

SEC. I.—*Ls. all submerged.*

*A. Ls. opp.—Stip. o.*

- i. Ls. ov.-lanc., amplex, pellucid—Spikes short, few-flowered.

*B. Ls. alt., lin.—Stip. adnate.*

- ii. St. fili., channelled—Ls. setaceous, one-nerved, sheathing—Spikes interrupted—Fr. with conspicuous keels.

- v. 2. *Ls. flat, three-nerved—Keel of fr. obscure.*

- iii. St. fili.—Ls. channelled, one-nerved—Spike very interrupted—Fr. small, not keeled.

*C. Ls. alt., lin.—Stipules free.*

- iv. St. fili., much branched—Ls. setaceous, one-veined.

- v. St. fili., cylind.—Ls. three-veined, acute.

- vi. St. compressed, winged—Ls. five-veined—Spike short, lax, interrupted.

- vii. St. slightly compressed—Ls. three-veined—Spike ovate, dense, continuous.

*a. Ls. obt.—Spike oval—Pedunc. short.*

*b. Ls. acu.—Spike oval—Pedunc. short.*

*c. Ls. acu.—Spike cylind.—Pedunc. long.*

*D. Ls. alt., ov. or obl.—Stip. free.*

- viii. St. flattened—Ls. obl., obt., wavy—Fr. with a long beak.

- ix. St. round, stout—Ls. cord.-ov., amplex, pellucid.

- x. St. stout—Ls. stalked, ellip.-lanc., pellucid—Stip. winged—Spike cylind., many flowered.

(*The largest British species.*)

- b. Ls. longer and narrower, the mid-rib running out into a point.*

- c. Ls. sess., cusp.—Stip. not winged—Pedunc. shorter.*

- xi. Ls. elong.-obl., semi-amplex, concave at tip—Stip. not winged—Spike cylind., dense—Pedunc. long.

SEC. II.—*Ls. alternate, upper ones floating—Stip. free.*

*A. Submerged ls. sess.*

- xii. St. slender—Submerged ls. lanc.—Flo. ls. ellip.—Stip. small, ribbed—Pedunc. thickened upwards.

*a. Ls. flat, not amplex; upper coriac., opp., fl.*

*b. Ls. recurved, all submerged, with many rooting branches from the upper axils.*

*c. Ls. dark gr.; obt.—Pedunc. not thickened.*

- xiii. St. round, simp.—Ls. reddish, lanc., many-nerved—Pedunc. equal.

*B. Submerged ls. stalked.*

- xiv. Ls. all coriaceous, ellip.; lower ls. lin., often absent—Fr. large, keeled when dry.

- xv. Upper ls. coriaceous, ellip.-obl., rounded at base; lower ls. lin.-lanc., membr.—Fr. small, rounded when dry.

- xvi. Ls. all membr., pellucid, beautifully netted—Fr. small, keeled when dry.

## ORD. XC.—NAIADACEÆ—cont.

| Botanical Name.                          | Common Name.               | Soil<br>or<br>Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|----------------------------|--------------------------|-----------|-----------|----------------|-----------------------|
| <b>Gen. II. <i>Ruppia</i>, L.</b>        | <i>Tassel Pond-weed.</i>   |                          |           |           |                |                       |
| i. <i>R. maritima</i> , L. . . .         | <i>Sea T.</i> . . . . .    | Ditches in<br>salt mar.  | ..        | Fl.       | P.             | 7-8                   |
| a. <i>maritima</i> . . . . .             | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. <i>rostellata</i> , Koch. . . .       | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <b>Gen. III. <i>Zannichellia</i>, L.</b> | <i>Horned Pond-weed.</i>   |                          |           |           |                |                       |
| i. <i>Z. palustris</i> , L. . . .        | <i>common H.</i> . . . .   | Ditches .                | ..        | Fl.       | A.             | 5-8                   |
| a. <i>palustris</i> . . . . .            | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| b. <i>pedicellata</i> , Fries. . .       | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <b>Gen. IV. <i>Zostera</i>, L.</b>       | <i>Grass-wrack.</i>        |                          |           |           |                |                       |
| i. <i>Z. marina</i> , L. . . . .         | <i>broad-leaved G.</i> .   | Salt<br>waters.          | ..        | Fl.       | P.             | 7-8                   |
| v. 2. <i>angustifolia</i> . . . .        | . . . . .                  | . . . . .                | . . . . . | . . . . . | . . . . .      | . . . . .             |
| ii. <i>Z. nana</i> , Roth. . . . .       | <i>dwarf G.</i> . . . . .  | Salt<br>waters.          | . . . . . | Fl.       | P.             | 4-8                   |
| <b>Gen. V. <i>Naias</i>, L.</b>          | <i>Naias.</i>              |                          |           |           |                |                       |
| i. <i>N. flexilis</i> , Roth. . .        | <i>flexible N.</i> . . . . | Lakes! I.                | ..        | Fl.       | P.             | 8                     |

## ORD. XCI.—LEMNACEÆ.

|   |                            |           |    |     |    |     |
|---|----------------------------|-----------|----|-----|----|-----|
| <b>Gen. I. <i>Lemna</i>, L.</b>         | <i>Duckweed.</i>           |           |    |     |    |     |
| i. <i>L. minor</i> , L. . . . .         | <i>lesser D.</i> . . . . . | Ponds . . | .. | Fl. | A. | 7-8 |
| ii. <i>L. gibba</i> , L. . . . .        | <i>gibbous D.</i> . . . .  | Ponds . . | .. | Fl. | A. | 6-9 |
| iii. <i>L. polyrrhiza</i> , L. . . .    | <i>greater D.</i> . . . .  | Ponds . . | .. | Fl. | A. | 7-8 |
| iv. <i>L. trisulca</i> , L. . . . .     | <i>Ivy-leaved D.</i> . . . | Ponds . . | .. | Fl. | A. | 6-7 |
| <b>Gen. II. <i>Wolffia</i>, Horkel.</b> |                            |           |    |     |    |     |
| i. <i>W. arrhiza</i> , Wimm. . .        | . . . . .                  | Ponds! .  | .. | Fl. | A. | 6-7 |

## ORD. XCII.—ARACEÆ.

|                                     |  |            |    |          |    |     |
|-------------------------------------|--|------------|----|----------|----|-----|
| <b>Gen. I. <i>Arum</i>, L.</b>      | <i>Cuckoo-pint.</i>  |            |    |          |    |     |
| i. <i>A. maculatum</i> , L. . .     | <i>Cuckoo-pint,</i><br><i>Wake Robin, or</i><br><i>Lords &amp; Ladies.</i> | Waysides   | .. | 6-10 in. | P. | 4-5 |
| iii. <i>A. italicum</i> , Mill. . . | . . . . .  | I. of W. . | .. | 8-12 in. | P. | 7-8 |
| <b>Gen. II. <i>Acorus</i>, L.</b>   | <i>Sweet-flag.</i>   |            |    |          |    |     |
| i. <i>A. calamus</i> , L. . . .     | <i>common S.</i> . . . .   | Marshes.   | .. | 3-6 ft.  | P. | 6-7 |

ORD. XC.—NAIADACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. II.**

- i. St. fili., much branched—Ls. lin.—Fls. on a spadix arising from the leaf-sheath.
- a. Sheaths inflated—Pedunc. long, spirally twisted.
- b. Sheaths small, close—Ls. narrower—Pedunc. short, flexuous.

**Gen. III.**

- i. Ls. opp., fili.—Fls. axill., sess.
- a. Clusters of fr. sess.—Sty. half as long as fr.
- b. Clusters of fr. stalked—Sty. as long as fr.

**Gen. IV.**

- i. Ls. (1-3 ft.) lin., 3-7 veined—Spadix many-flowered, without bands.
- v. 2. *Ls. narrower (1-3 veined).*
- ii. Ls. (6-8 in.) lin., 1-3 veined—Spadix few-flowered, with clasping bands.

**Gen. V.**

- i. Ls. lin., minutely dentic., opp. or three in a whorl—Fls. axill., sol.

## ORD. XCI.—LEMNACEÆ.

**Gen. I.**

- i. Fronds ob.-ov., compressed—Root sol.
- ii. Fronds ob.-ov., tumid below—Root sol.
- iii. Fronds broadly ob.-ov.—Roots many, clustered.
- iv. Fronds thin, ellip.-lanc., tip serr.—Roots sol.

**Gen. II.**

- i. Fronds obl., very minute, like a grain of sand.  
(*The smallest known flowering plant.*)

## ORD. XCII.—ARACEÆ.

**Gen. I.**

- i. Ls. vernal, sagitt., spotted, with deflexed lobes.
- ii. Ls. appearing before winter, triang., with diverging lobes.

**Gen. II.**

- i. Ls. ensif.—Scape leaf-like, with spadix in middle—Sweet scented

## ORD. XCIII.—TYPHACEÆ.

| Botanical Name.                      | Common Name.                                | Soil<br>or<br>Situation. | Colour | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|--------------------------------------|---|--------------------------|--------|---------|----------------|-----------------------|
| <b>Gen. I. Sparganium, L.</b>        | <i>Bur-weed.</i>                            |                          |        |         |                |                       |
| i. <i>S. natans, L.</i> . . . .      | <i>floating B.</i> . . . .                  | Lakes! .                 | ..     | Fl.     | P.             | 8-9                   |
| a. <i>natans, L.</i> . . . . .       | . . . . .                                   | . . . . .                | ..     | . . .   | . . .          | . . .                 |
| b. <i>minimum, Fries.</i> . . .      | . . . . .                                   | . . . . .                | ..     | . . .   | . . .          | . . .                 |
| ii. <i>S. simplex, Huds.</i> . . .   | <i>unbranched B.</i> . . .                  | Ditches .                | ..     | 1-2 ft. | P.             | 7-8                   |
| iii. <i>S. ramosum, Huds.</i> . .    | <i>branched B.</i> . . . .                  | Ditches .                | ..     | 2-4 ft. | P.             | 6-7                   |
| <b>Gen. II. Typha, L.</b>            | <i>Reed-mace, Cat's-<br/>tail, Bulrush.</i> |                          |        |         |                |                       |
| i. <i>T. latifolia, L.</i> . . . .   | <i>great B., &amp;c.</i> . . . .            | Ponds . .                | ..     | 3-7 ft. | P.             | 7-8                   |
| ii. <i>T. angustifolia, L.</i> . . . | <i>lesser B., &amp;c.</i> . . . .           | Ponds! .                 | ..     | 1-3 ft. | P.             | 7-8                   |

## ORD. XCIV.—RESTIACEÆ.

|                                  |                           |          |    |     |    |     |
|----------------------------------|---------------------------|----------|----|-----|----|-----|
| <b>Gen. I. Eriocaulon, L.</b>    | <i>Pipe-wort.</i>         |          |    |     |    |     |
| i. <i>E. septangulare, With.</i> | <i>jointed P.</i> . . . . | Lakes! . | .. | Fl. | P. | 8-9 |

## ORD. XCV.—JUNCACEÆ.

|                                      |                            |                 |    |         |       |       |
|--------------------------------------|----------------------------|-----------------|----|---------|-------|-------|
| <b>Gen. I. Narthecium,<br/>Huds.</b> | <i>Bog-Asphodel.</i>       |                 |    |         |       |       |
| i. <i>N. ossifragum, Huds.</i>       | <i>Lancashire B.</i> . .   | Mount.<br>bogs. | Y. | 6-8 in. | P.    | 6-8   |
| <b>Gen. II. Juncus, L.</b>           | <i>Rush.</i>               |                 |    |         |       |       |
| i. <i>J. communis, Mey.</i> . .      | <i>common R.</i> . . . .   | Wet pl. .       | .. | 1-3 ft. | P.    | 7-8   |
| a. <i>conglomeratus, L.</i> . . .    | . . . . .                  | . . . . .       | .. | . . .   | . . . | . . . |
| b. <i>effusus, L.</i> . . . . .      | . . . . .                  | . . . . .       | .. | . . .   | . . . | . . . |
| c. <i>diffusus, Hoppe.</i> . . . .   | . . . . .                  | . . . . .       | .. | . . .   | . . . | . . . |
| ii. <i>J. glaucus, Ehrh.</i> . . .   | <i>hard R.</i> . . . . .   | Wet pl. .       | .. | 1-3 ft. | P.    | 7-8   |
| iii. <i>J. balticus, Willd.</i> . .  | <i>Baltic R.</i> . . . . . | San. sh.!       | .. | 1-2 ft. | P.    | 7-8   |
| iv. <i>J. filiformis, L.</i> . . . . | <i>Thread R.</i> . . . .   | Lakes sh.!      | .. | 4-8 in. | P.    | 7-8   |
| * *                                  |                            |                 |    |         |       |       |
| v. <i>J. maritimus, Sm.</i> . . .    | <i>lesser Sea R.</i> . . . | Salt mar.       | .. | 1-3 ft. | P.    | 7-8   |
| vi. <i>J. acutus, L.</i> . . . . .   | <i>great Sea R.</i> . . .  | San. sh.!       | .. | 2-4 ft. | P.    | 7-8   |

## ORD. XCIII.—TYPHACEÆ.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. I.

- i. St. simple—Ls. floating, flat, concave at base.
- a. Barren heads several, sess.—Fr. stalked, beak long.
- b. Barren head sol.—Fr. sess., shortly beaked.
- ii. St. simple—Ls. erect, triang. at base, with flat sides.
- iii. St. branched—Ls. erect, triang. at base, with concave sides.

## Gen. II.

- i. Ls. lin., flat—Spikes contiguous.
- ii. Ls. lin., channelled below—Spikes separate.

## ORD. XCIV.—RESTIACEÆ.

## Gen. I.

- i. Ls. subu., glab.—Scape long ; fls. in a compact scaly head.

## ORD. XCV.—JUNCACEÆ.

## Gen. I.

- i. Ls. rigid, ribbed, acum. — Pedi. with one bract at base and one above the middle.

## Gen. II.

- \* *Ls. none—Pan. lat.—Fls. not clustered—Seeds with a close testa.*
- i. St. soft, faintly striate ; pith continuous—Pan. very much branched, variable—Seg. of perian. lanc. longer than the retuse caps.—Sta. three.
- a. Perian. olive—Pan. dense, glob.—Fr. apicu.
- b. Perian. olive-gr.—Pan. lax—Fr. not apicu.
- c. St. rigid, striate—Caps. ob.-ov., mucro.—(*Probably a hybrid between J. communis and J. glaucus.*)
- ii. St. rigid, glauc.—Pith interr.—Pan. lax, much branched—Seg. of perian. narrow, lin. ; as long as the ellip.-obl. caps.—Sta. six.
- iii. Root creeping, not tufted—St. rigid—Pith continuous—Pan. slightly branched—Seg. of perian. ov.-lanc., acu. as long as the ellip., abruptly mucro. caps.—Sta. three.
- iv. St. fili., slend.—Pan. small, few-flowered, about middle of st.—Caps. obt., mucro.—Sta. six.
- \*\* *Ls. none—Pan. lat.—Fls. clustered—Seeds with a loose testa.*
- v. St. rigid—Segm. of peri. lanc., acu., without scarious margins, as long as the ellip. caps.
- vi. St. rigid—Segm. of peri. ov.-lanc., with a scarious margin, half as long as the oval caps.

ORD. XCV.—JUNCACEÆ—*cont.*

| Botanical Name.                       | Common Name.                          | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---------------------------------------|---------------------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| * * *                                 |                                       |                          |         |           |                |                       |
| vii. <i>J. acutiflorus</i> , Ehrh. .  | <i>sharp-flowered<br/>jointed R.</i>  | Bogs . .                 | . .     | 1-2 ft.   | P.             | 6-8                   |
| viii. <i>J. lamprocarpus</i> , Ehrh.  | <i>shining-fruited<br/>jointed R.</i> | Bogs . .                 | . .     | 1-2 ft.   | P.             | 7-8                   |
| v. 2. <i>nigritellus</i> , Don. . .   |                                       |                          |         |           |                |                       |
| ix. <i>J. uliginosus</i> , Sibth. .   | <i>lesser jointed R.</i>              | Bogs . .                 | . .     | 1-2 ft.   | P.             | 7-8                   |
| x. <i>J. obtusifolius</i> , Ehrh.     | <i>blunt-flowered<br/>jointed R.</i>  | Bogs . .                 | . .     | 2-3 ft.   | P.             | 7-8                   |
| * * * *                               |                                       |                          |         |           |                |                       |
| †                                     |                                       |                          |         |           |                |                       |
| xi. <i>J. castaneus</i> , Sm. . .     | <i>clustered Alp. R.</i>              | Sc.mount.!               | . .     | 6-12 in.  | P.             | 7-8                   |
| xii. <i>J. trifidus</i> , L. . . . .  | <i>three-leaved R.</i>                | Sc. bogs!                | . .     | . .       | . .            | . .                   |
| ††                                    |                                       |                          |         |           |                |                       |
| xiii. <i>J. compressus</i> , Jacq. .  | <i>round-fruited R.</i>               | Bogs . .                 | . .     | 1-2 ft.   | P.             | 6-8                   |
| v. 2. <i>Gerardi</i> , Lois. . . .    |                                       |                          |         |           |                |                       |
| xiv. <i>J. bufonius</i> , L. . . .    | <i>Toad R.</i>                        | Wat. pl.                 | . .     | 1-8 in.   | A.             | 7-8                   |
| * * * * *                             |                                       |                          |         |           |                |                       |
| A.                                    |                                       |                          |         |           |                |                       |
| xv. <i>J. squarrosus</i> , L. . . .   | <i>Heath R.</i>                       | Heaths .                 | . .     | 4-10 in.  | P.             | 6-7                   |
| xvi. <i>J. capitatus</i> , Wei. . .   | <i>capitate R.</i>                    | Jersey .                 | . .     | 1-4 in.   | P.             | 5-7                   |
| B.                                    |                                       |                          |         |           |                |                       |
| xvii. <i>J. biglumis</i> , L. . . .   | <i>two-flowered R.</i>                | Sc.mount.!               | . .     | 2-6 in.   | P.             | 7-8                   |
| xviii. <i>J. triglumis</i> , L. . . . | <i>three-flowered R.</i>              | Sc.mount.!               | . .     | 6-12 in.  | P.             | 7-8                   |
| Gen. III. <i>Luzula</i> , DC.         |                                       |                          |         |           |                |                       |
| <i>Woodrush.</i>                      |                                       |                          |         |           |                |                       |
| i. <i>L. sylvatica</i> , Bech. . . .  | <i>great hairy W.</i>                 | Woods .                  | . .     | 12-18 in. | P.             | 5-6                   |
| ii. <i>L. pilosa</i> , Willd. . . .   | <i>broad-leaved<br/>hairy W.</i>      | Woods .                  | . .     | 6-12 in.  | P.             | 5-6                   |
| v. 2. <i>Borreri</i> , Bromf. . . .   |                                       |                          |         |           |                |                       |
| iii. <i>L. Forsteri</i> , DC. . . .   | <i>narrow-leaved<br/>hairy W.</i>     | Woods .                  | . .     | 6-12 in.  | P.             | 3-6                   |
| iv. <i>L. campestris</i> , Willd.     | <i>Field W.</i>                       | Heaths .                 | . .     | 4-10 in.  | P.             | 4-6                   |
| a. <i>campestris</i> . . . . .        | . . . . .                             | . . . . .                | . .     | . .       | . .            | . .                   |
| b. <i>multiflora</i> , Lej. . . . .   | . . . . .                             | . . . . .                | . .     | . .       | . .            | . .                   |
| v. <i>L. arcuata</i> , Hook. . . .    | <i>curved mount W.</i>                | Sc.mount.!               | . .     | 1-4 in.   | P.             | 7                     |
| vi. <i>L. spicata</i> , DC. . . . .   | <i>spiked mount W.</i>                | Sc. mount.               | . .     | 6-12 in.  | P.             | 7                     |

## ORD. XCVI.—CYPERACEÆ.

|  |                 |                      |     |         |    |     |
|--|-----------------|----------------------|-----|---------|----|-----|
| Gen. I. <i>Cyperus</i> , L.              |                 |                      |     |         |    |     |
| <i>Cyperus</i> , <i>Galin-<br/>gale.</i> |                 |                      |     |         |    |     |
| i. <i>C. longus</i> , L. . . . .         | <i>sweet C.</i> | Marshes!<br>S. of E. | . . | 2-3 ft. | P. | 8-9 |



ORD. XCV.—JUNCACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

\* \* \* *Sts. leafy—Ls. terete, or compressed, jointed internally—Pan. term.—Fls. fasciculate; seeds not appendaged.*

- vii. St. and ls. sub-compressed—Pan. pyram., compound; segm. of peri. acum., as long as the acum., pale brown caps.
- viii. St. and ls. compressed—Pan. repeatedly forked—Outer segm. of peri. acute; inner obt.; shorter than the ob.-lanc., dark brown caps.
- v. 2. *Outer sep. acute, shorter than the lin.-obl., rostr., black caps.*
- ix. St. slender—Ls. setaceous, slightly grooved—Pan. nearly simp., irreg.—Seg. of peri. obl.; outer three acute, inner obt., nearly as long as the ellip., obt., pale brown caps.
- x. St. and ls. terete—Pan. spreading—Seg. of peri., obt., as long as the ov., acum., caps.

\* \* \* \* *St. leafy—Ls. flat or grooved, not jointed.*

† *Seeds appendaged.*

- xi. St. with two channelled ls.—Pan. term.—Seg. of peri. ellip.-lanc., half as long as the ov.-obl. caps.
- xii. St. one-leaved—Pan. term. 1-3 flowered, with two long leafy bracts.  
†† *Seeds not appendaged.*
- xiii. St. tufted, with one leaf in middle—Pan. compact—Seg. of peri. ov.-obl., obt., shorter than the ov., mucro. caps.
- v. 2. *Sts. more dist.—Seg. of peri. as long as caps.*
- xiv. St. slend., dichotomously branched—Fls. sol., sess.—Seg. of peri. longer than the obl., obt. caps.

\* \* \* \* \* *Ls. all rad.—Fls. term.*

*A. Seeds not appendaged.*

- xv. Ls. rigid—Pan. term., compound—Seg. of peri. ov.-lanc., as long as the obt. caps.
- xvi. Ls. soft, fili.—Seg. of peri. unequal, arist.; twice as long as the acum. caps.  
*B. Seeds appendaged.*
- xvii. Sts. scattered, channelled on one side—Ls. not channelled—Caps. turb., retuse.
- xviii. Sts. tufted, round—Ls. channelled—Caps. ellip., acute.

## Gen. III.

- i. Pan. cymose, doubly compound—Pedunc. long, three-flowered—Sep. arist., as long as the ov., acute, beaked caps.
- ii. Pan. little branched—Pedunc. one-flowered, reflexed in fr.—Sep. acum., shorter than the broadly ov., obt. caps.
- v. 2. *Caps. shorter, acute, not ripening.*
- iii. As last, but more slender—Ls. lin., pedunc. erect and caps. acute.
- iv. Pan. of three or four round, term., sess. or stalked spikes—Caps. blunt.
  - a. Filaments much shorter than the anth.—Seeds glob.
  - b. Filaments nearly as long as anth.—Seeds twice as long as broad.
- v. Pan. sub-umbell., of few 3-5 flowered clusters on a long, drooping pedunc.
- vi. Pan. spike-like, dense-flowered, drooping.

## ORD. XCVI.—CYPERACEÆ.

## Gen. I.

- i. Spikelets in erect, doubly compound, umbels—Root creeping.

ORD. XCVI.—CYPERACEÆ—*cont.*

| Botanical Name.                                       | Common Name.                             | Soil<br>or<br>Situation. | Colour | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|--------|----------|----------------|-----------------------|
| ii. <i>C. fuscus</i> , <i>L.</i> . . . .              | <i>brown C.</i> . . . .                  | Wetmead!<br>Surrey.      | ..     | 2-6 in.  | A.             | 8-9                   |
| <b>Gen. II. <i>Cladium</i>, <i>Schrad.</i></b>        | <i>Twig-rush.</i>                        |                          |        |          |                |                       |
| i. <i>C. mariscus</i> , <i>Br.</i> . . . .            | <i>prickly T.</i> . . . .                | Bogs! . .                | ..     | 3-5 ft.  | P.             | 7-8                   |
| <b>Gen. III. <i>Schoenus</i>, <i>L.</i></b>           | <i>Bog-rush.</i>                         |                          |        |          |                |                       |
| i. <i>S. nigricans</i> , <i>L.</i> . . . .            | <i>black B.</i> . . . .                  | Bogs! . .                | ..     | 6-18 in. | P.             | 6-7                   |
| <b>Gen. IV. <i>Rhynchospora</i>,<br/><i>Vahl.</i></b> | <i>Beak-rush.</i>                        |                          |        |          |                |                       |
| i. <i>R. alba</i> , <i>Vahl.</i> . . . .              | <i>white B.</i> . . . .                  | Bogs . .                 | ..     | 6-18 in. | P.             | 6-7                   |
| ii. <i>R. fusca</i> , <i>Sm.</i> . . . .              | <i>brown B.</i> . . . .                  | Bogs!<br>S.W. of E.      | ..     | 6-12 in. | P.             | 7-8                   |
| <b>Gen. V. <i>Blysmus</i>, <i>Panz.</i></b>           | <i>Blysmus.</i>                          |                          |        |          |                |                       |
| i. <i>B. compressus</i> , <i>Panz.</i>                | <i>broad-leaved B.</i> .                 | Bogs . .                 | ..     | 4-10 in. | P.             | 6-7                   |
| ii. <i>B. rufus</i> , <i>Link.</i> . . . .            | <i>narrow-leaved B.</i>                  | Bogs . .                 | ..     | 3-12 in. | P.             | 6-7                   |
| <b>Gen. VI. <i>Scirpus</i>, <i>L.</i></b>             | <i>Club-rush, Bul-<br/>rush, &amp;c.</i> |                          |        |          |                |                       |
| i. <i>S. lacustris</i> , <i>L.</i> . . . .            | <i>lake C., or B.</i> . .                | Marshes                  | ..     | 1-8 ft.  | P.             | 7-8                   |
| b. <i>Tabernæmontani</i> ,<br><i>Gmel.</i>            | . . . . .                                | Sea sh.!                 | ..     | ..       | ..             | ..                    |
| c. <i>carinatus</i> , <i>Sm.</i> . . . .              | . . . . .                                | Riv. bnks.!              | ..     | ..       | ..             | ..                    |
| ii. <i>S. triqueter</i> , <i>L.</i> . . . .           | <i>triangular C.</i> . .                 | Riv. bnks.!              | ..     | 1-3 ft.  | P.             | 8-9                   |
| iii. <i>S. pungens</i> , <i>Vahl.</i> . .             | <i>sharp C.</i> . . . .                  | Jersey! .                | ..     | 6-18 in. | P.             | 6-7                   |
| iv. <i>S. maritimus</i> , <i>L.</i> . . . .           | <i>Salt marsh C.</i> . .                 | Salt mar.                | ..     | 1-3 ft.  | P.             | 7-8                   |
| v. <i>S. sylvaticus</i> , <i>L.</i> . . . .           | <i>Wood C.</i> . . . .                   | Woods .                  | ..     | 1-3 ft.  | P.             | 7-8                   |
| <b>Gen. VII. <i>Isolepis</i>, <i>Br.</i></b>          | <i>Mud-rush.</i>                         |                          |        |          |                |                       |
| i. <i>I. setacea</i> , <i>Br.</i> . . . .             | <i>bristle-stalked M.</i>                | Moi. pl. .               | ..     | 3-6 in.  | P.             | 7-8                   |
| ii. <i>I. Savii</i> , <i>Schultz.</i> . .             | <i>Savi's M.</i> . . . .                 | Bogs! . .                | ..     | 3-10 in. | P.             | 7-8                   |
| iii. <i>I. fluitans</i> , <i>Br.</i> . . . .          | <i>floating M.</i> . . . .               | Ditches .                | ..     | Flo.     | P.             | 6-7                   |
| iv. <i>I. Holoschoenus</i> , <i>L.</i> .              | <i>cluster-headed M.</i>                 | San. sh.!                | ..     | 2-3 ft.  | P.             | 9-10                  |
| <b>Gen. VIII. <i>Eleocharis</i>,<br/><i>Br.</i></b>   | <i>Spike-rush.</i>                       |                          |        |          |                |                       |
| i. <i>E. palustris</i> , <i>Br.</i> . . . .           | <i>creeping S.</i> . . . .               | Bogs . .                 | ..     | 6-12 in. | P.             | 6-7                   |
| a. <i>palustris.</i> . . . . .                        | . . . . .                                | . . . .                  | ..     | ..       | ..             | ..                    |
| b. <i>uniglumis</i> , <i>Link.</i> . . . .            | . . . . .                                | . . . .                  | ..     | ..       | ..             | ..                    |
| c. <i>Watsoni.</i> . . . . .                          | . . . . .                                | . . . .                  | ..     | ..       | ..             | ..                    |

ORD. XCVI.—CYPERACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

ii. Spikelets in small, round heads—Root tufted.

## Gen. II.

i. St. leafy—Edges of ls. rough—Cymes, term., and lat., much branched; spikelets capit.

## Gen. III.

i. St. naked, round—Spikelets 5-10 in a term., round head, shorter than the lower bract.

## Gen. IV.

i. Spikelets in a compact head, as long as the outer bracts—Sta. two.  
ii. Spikelets in an oval head, much shorter than the outer bracts—Sta. three.

## Gen. V.

i. St. triang.—Ls. lin., flat, rough—Spikelets 6-8 flowered, longer than bract.  
ii. St. round—Ls. channelled, smooth—Spikelets 2-4 flowered, not longer than bract.

## Gen. VI.

\* *Stem leafless.*

i. St. terete—Ls. often flo.—Cymes term., doubly compound—Glu. notched, mucro., fringed, glab.—Fr. trigonous.

b. St. glauc.—Flo. ls. absent—Glu. rough—Fr. compressed.

c. St. obscurely triang. above—Glu. glab.—Fr. compressed.

ii. St. acutely triang.—Spikes ov., clustered—Glu. glab., notched, mucro.—Fr. obtusely lobed.

iii. St. acutely triang.—Spikes few, sess.—Glu. bifid, with acute lobes.

\* \* *Stem leafy.*

iv. Spike in a dense, term., clust.—Glu. bifid, with acute lobes.

v. Spike in a very compact pan.—Glu. ent., obt.

## Gen. VII.

\* *Spikes 1-3 sess.*

i. Lower bract very long—Fr. transversely striate.

ii. Lower bracts not longer than spikelets—Fr. rough, with raised points.

\* \* *Spikelets sol., term.—St. floating.*

iii. St. much branched, leafy, flo.—Spikes ovate.

\* \* \* *Spikelets many, in glob. heads.*

iv. St. round—Ls. channelled.

## Gen. VIII.

i. Root creeping, with many tufts—St. round, with membr. transversely trunc. sheaths—Fr. plano-convex—Term. glu. acute—Stig. two.

a. Lower glu. half surrounding the spikelet.

b. Lower glu. almost surrounding the spikelet.

c. Smaller and more rigid—Lower glu. surrounding the spikelet.

## ORD. XCVI.—CYPERACEÆ—cont.

| Botanical Name.                                     | Common Name.                             | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|--|--------------------------|---------|-----------|----------------|-----------------------|
| ii. <i>E. multicaulis</i> , Sm. .                   | <i>many-stalked S.</i> .                 | Bogs . .                 | . .     | 6-12 in.  | P.             | 6-7                   |
| iii. <i>E. pauciflora</i> , Link. .                 | <i>Chocolate-headed S.</i>               | Bogs Sco.!               | . .     | 6-12 in.  | P.             | 7-8                   |
| iv. <i>E. cæspitosa</i> , Link. .                   | <i>scaly-stalked S., or Deer's-hair.</i> | Moors. .                 | . .     | 3-12 in.  | P.             | 6-7                   |
| v. <i>E. acicularis</i> , L. . . .                  | <i>least S.</i> . . . .                  | San. sh. of lakes.       | . .     | 2-6 in.   | P.             | 7-8                   |
| vi. <i>E. parvula</i> , L. . . . .                  | . . . . .                                | Mud. sh. I.!             | . .     | 1-2 in.   | A.             | 7-8                   |
| <b>Gen. IX. Eriophorum, L.</b> <i>Cotton-grass.</i> |  |                          |         |           |                |                       |
| * . . . .   |  |                          |         |           |                |                       |
| i. <i>E. alpinum</i> , L. . . . .                   | <i>Alpine C.</i> . . . .                 | Alp. bogs!               | . .     | 6-10 in.  | P.             | 6                     |
| ii. <i>E. vaginatum</i> , L. . .                    | <i>Hare's-tail C.</i> . .                | Boggy moors.             | . .     | 6-10 in.  | P.             | 4-5                   |
| * * . . . .   |  |                          |         |           |                |                       |
| iii. <i>E. polystachyon</i> , L. .                  | <i>common C.</i> . . . .                 | Bogs . .                 | . .     | 6-15 in.  | P.             | 5-6                   |
| a. <i>angustifolium</i> , Roth. .                   | . . . . .                                | . . . . .                | . .     | . . . . . | . .            | . .                   |
| b. <i>latifolium</i> , Hoppe. . .                   | . . . . .                                | . . . . .                | . .     | . . . . . | . .            | . .                   |
| iv. <i>E. gracile</i> , Koch. . .                   | <i>slender C.</i> . . . .                | Bogs! . .                | . .     | 1-2 ft.   | P.             | 6-7                   |
| <b>Gen. X. Kobresia, Willd.</b>                     |  |                          |         |           |                |                       |
| i. <i>K. caricina</i> , Willd. .                    | . . . . .                                | Moors! N. of E.          | . .     | 4-8 in.   | P.             | 8-9                   |
| <b>Gen. XI. Carex, L.</b> <i>Sedge.</i>             |  |                          |         |           |                |                       |
| SEC. I. . . . .                                     |  |                          |         |           |                |                       |
| A. . . . .  |  |                          |         |           |                |                       |
| i. <i>C. dioica</i> , L. . . . .                    | <i>separate-headed S.</i>                | Bogs . .                 | . .     | 6-12 in.  | P.             | 5-6                   |
| ii. <i>C. pulcaris</i> , L. . . .                   | <i>Flea S.</i> . . . . .                 | Bogs . .                 | . .     | 3-8 in.   | P.             | 5-6                   |
| B. . . . .  |  |                          |         |           |                |                       |
| iii. <i>C. rupestris</i> , All. . .                 | <i>Rock S.</i> . . . . .                 | Alp. rocs.!              | . .     | 4-6 in.   | P.             | 7-8                   |
| iv. <i>C. pauciflora</i> , Lightf. .                | <i>few-flowered S.</i> .                 | Sc.mount.!               | . .     | 3-10 in.  | P.             | 6-7                   |
| SEC. II. . . . .                                    |  |                          |         |           |                |                       |
| A. . . . .  |  |                          |         |           |                |                       |
| v. <i>C. incurva</i> , Lightf. . .                  | <i>curved S.</i> . . . .                 | San. sh.!                | . .     | 2-4 in.   | P.             | 6-7                   |
| B. . . . .  |  |                          |         |           |                |                       |
| vi. <i>C. ovalis</i> , Good. . . .                  | <i>oval-spiked S.</i> . .                | Bogs . .                 | . .     | 8-12 in.  | P.             | 6-7                   |
| vii. <i>C. stellulata</i> , Good. .                 | <i>little prickly S.</i> .               | Marshes. .               | . .     | 6-12 in.  | P.             | 5-6                   |
| viii. <i>C. curta</i> , Good. . . .                 | <i>white S.</i> . . . . .                | Bogs . .                 | . .     | 6-12 in.  | P.             | 6-7                   |
| v. 2. <i>alpicola</i> , Wahl. . .                   |  |                          |         |           |                |                       |
| ix. <i>C. lagopina</i> , Wahl. . .                  | <i>Hare's-foot S.</i> . .                | Sc.mount.!               | . .     | 4-8 in.   | P.             | 7-8                   |
| x. <i>C. elongata</i> , L. . . . .                  | <i>elongated S.</i> . . . .              | Marshes!                 | . .     | 1-2 ft.   | P.             | 7-8                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- ii. Root hardly creeping, with one tuft—St. round, with obliquely trunc., acu., leafless, sheaths—Fr. ob.-ov., three-sided—Term. glu., obt.—Stig. three—Bristles 4-6, longer than fr.
- iii. Stems tufted, with long stolons, round, striate, with narrow, leafless sheaths—Fr. striate, obl., mucro.—Lower glu. obt., shorter than spikelets—Bristles 3-6, shorter than fr.
- iv. Root densely tufted, wiry—St. round, with leafless sheaths, and short, subu. ls. below—Stig. three—Fr. ob.-ov., acum.; two lower glu. awned, longer than the spikelet.
- v. Root with fili., stolons—St. quadrangular, with leafless sheaths—Spikelets minute—Stig. three—Glu. obt.—Fr. ob.-ov., ribbed and transversely striate.
- vi. Very small—Root fili., with dense tufts—St. round, with one leafless sheath—Ls. fili., rad.

## Gen. IX.

\* *Spikelets sol.*

- i. St. triang.—Spikelet obl., few-flowered—Bristles 4-6, crisped.
- ii. St. triang. above, round below—Spikelet ov., many-flowered—Bristles many, straight.

\* \* *Spikelets several, lateral.*

- iii. St. rigid—Ls. flat—Fer. spikelets 4-12—Fr. ob.-ov., mucro.
  - a. Ls. channelled near the base—Pedunc. glab.—Glu. ov.
  - b. Ls. quite flat—Pedunc. scab.—Glu. lanc.
- iv. St. slender—Ls. trique.—Pedunc. downy—Fr. ob.-ov., obt.

## Gen. X.

- i. St. densely tufted—Ls. wiry, grooved, shorter than st.—Spikelets aggregate.

## Gen. XI.

SEC. I.—*Spikelets solitary, simple.*A. *Stig. two.*

- i. Dioecious—Spikelet ov., dense—Fr. ov., ascend., serrulated at margin.
- ii. Androgynous—Spikelet with upper part barren—Fr. lanc.-triang., deflexed.

B. *Stig. three.*

- iii. Ls. flat, ending in a twisted point—Upper half of spikelet barren—Fr. ob.-ov., adpr.—Glu. persist.
- iv. One or two term. fls. barren—Fr. few, lan.-subu., reflexed.

SEC. II.—*Spikelets compound, continuous.*A. *Spikelets capitate, barren at top—Root creeping—Bractæas membranous.*

- v. Spikelets in a glob. head—St. curved—Fr. broadly ov.—Ls. channelled.

B. *Spikelets barren at base—Root tufted—Bractæas membranous.*

- vi. Spikelets fuscous, about six, alt., ov., approx.—Fr. ov.-acum., erect, with a membr. marg.; beak bifid.
- vii. Spikelets pale, three or four, glob., remote—Fr. broadly ov., spreading, much beaked; beak bifid.
- viii. Spikelets pale, about six, ellip., rather remote—Fr. broadly ov., compressed, acute, faintly striate; beak emarg.
- v. 2. *Smaller—Beak split to base.*
- ix. Spikelets fuscous, ellip., contig.—Fr. erect, ellip.; beak entire, scarious at apex.
- x. Spikelets pale, many, obl., approx.—Fr. spread., obl.-acum., many ribbed; beak almost entire, with rough edges.

ORD. XCVI.—CYPERACEÆ—*cont.*

| Botanical Name.   | Common Name.                  | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering |
|---|-------------------------------|--------------------------|---------|----------|----------------|----------------------|
| <i>C.</i>   |                               |                          |         |          |                |                      |
| <b>xi.</b> <i>C. remota</i> , <i>L.</i> . .             | <i>distant-spiked S.</i>      | Sh. pl. . .              | . .     | 1-2 ft.  | P.             | 6-7                  |
| <b>xii.</b> <i>C. axillaris</i> , <i>Good.</i>          | <i>axillary clustered S.</i>  | Marshes!                 | . .     | 1-2 ft.  | P.             | 6-7                  |
| <b>xiii.</b> <i>C. Boenninghausiana</i> , <i>Weihe.</i> | . . . .                       | Marshes!                 | . .     | 1-2 ft.  | P.             | 6-7                  |
| <i>D.</i>   |                               |                          |         |          |                |                      |
| <b>xiv.</b> <i>C. paniculata</i> , <i>L.</i>            | <i>great panicled S.</i>      | Marshes.                 | . .     | 1-4 ft.  | P.             | 6-7                  |
| <b>xv.</b> <i>C. paradoxa</i> ,<br><i>Willd.</i>        | . . . .                       | Marshes!                 | . .     | 1-3 ft.  | P.             | 6-7                  |
| <b>xvi.</b> <i>C. teretiuscula</i> ,<br><i>Good.</i>    | <i>lesser panicled S.</i>     | Marshes.                 | . .     | 1-2 ft.  | P.             | 6-7                  |
| <b>v. 2.</b> <i>Ehrartiana</i> ,<br><i>Hop.</i>         | . . . .                       | . . . .                  | . .     | . .      | . .            | . .                  |
| <b>xvii.</b> <i>C. vulpina</i> , <i>L.</i> . .          | <i>great S.</i> . . . .       | Marshes.                 | . .     | 2-4 ft.  | P.             | 6-7                  |
| <i>E.</i>   |                               |                          |         |          |                |                      |
| <b>xviii.</b> <i>C. divulsa</i> , <i>Good.</i>          | <i>gray S.</i> . . . .        | Marshes.                 | . .     | 1-2 ft.  | P.             | 5-6                  |
| <b>xix.</b> <i>C. muricata</i> , <i>L.</i> . .          | <i>great prickly S.</i> .     | Marshes.                 | . .     | 1-2 ft.  | P.             | 5-6                  |
| * *   |                               |                          |         |          |                |                      |
| <b>xx.</b> <i>C. arenaria</i> , <i>L.</i> . .           | <i>Sea S.</i> . . . .         | San. sh. .               | . .     | 8-10 in. | P.             | 6-7                  |
| <b>xxi.</b> <i>C. intermedia</i> ,<br><i>Good.</i>      | <i>soft brown S.</i> . .      | Marshes.                 | . .     | 1-3 ft.  | P.             | 6-7                  |
| <b>xxii.</b> <i>C. divisa</i> , <i>Huds.</i> .          | <i>bracteate Marsh S.</i>     | Marshes.                 | . .     | 1-3 ft.  | P.             | 6-7                  |
| <i>F.</i>   |                               |                          |         |          |                |                      |
| <b>xxiii.</b> <i>C. VahlII</i> , <i>Schk.</i> .         | <i>close-headed Alpine S.</i> | Sc.mount.!               | . .     | 6-18 in. | P.             | 6-7                  |
| <b>xxiv.</b> <i>C. canescens</i> , <i>L.</i>            | <i>hoary S.</i> . . . .       | Lough<br>Neagh, I.!      | . .     | 1-2 ft.  | P.             | 7-8                  |
| <b>xxv.</b> <i>C. atrata</i> , <i>L.</i> . .            | <i>black S.</i> . . . .       | Mount.!                  | . .     | 1-2 ft.  | P.             | 7-8                  |
| SEC. III.   |                               |                          |         |          |                |                      |
| *   |                               |                          |         |          |                |                      |
| <i>A.</i>   |                               |                          |         |          |                |                      |
| <b>xxvi.</b> <i>C. rigida</i> , <i>Good.</i> .          | <i>rigid S.</i> . . . .       | Mount.!                  | . .     | 4-6 in.  | P.             | 6-8                  |
| <b>xxvii.</b> <i>C. acuta</i> , <i>L.</i> . . .         | <i>slender-spiked S.</i>      | Wet pl. .                | . .     | 2-3 ft.  | P.             | 6-8                  |
| <b>xxviii.</b> <i>C. stricta</i> , <i>Good.</i> .       | <i>tufted Bog S.</i> . .      | Bogs . .                 | . .     | 1-3 ft.  | P.             | 5-6                  |
| <i>B.</i>   |                               |                          |         |          |                |                      |
| <b>xxix.</b> <i>C. aquatilis</i> , <i>Wahl.</i>         | <i>Water S.</i> . . . .       | Sco. bogs.               | . .     | 1-2 ft.  | P.             | 6-8                  |

## ORD. XCVI.—CYPERACEÆ—cont.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

*C. Spikelets barren at their base, or at both ends; lower distant—  
Root tufted—Bracteas leafy.*

- xi.** Spikelets all simp.; upper crowded—Fr. ov.-lanc., longer than the glu.; beak notched—Ls. channelled.
- xii.** Spikelets; upper simp., crowded; lower remote, compound—Fr. ov.-lanc., serr. above, as long as the glu.; beak deeply bifid—Ls. flat.
- xiii.** Spikelets; upper simp.; lower compound—Fr. lanc., as long as the glu., serr. from below the middle; beak almost ent.

*(Probably a hybrid between eleven and twelve.)*

*D. Spikelets barren at top, compound, approx., panicled—Root tufted—Bracteas membranous.*

- xiv.** Spikelet thrice compound, panicled, branches spreading—Root densely tufted—St. trique, with flat sides—Fr. ov., many veined, gibb.; beak winged.
  - xv.** Spikelet elongate, lower branched, dist.—St. slender, trique, with convex sides—Fr. ov., gibb., with many short veins near the base; beak not winged.
  - xvi.** Spikelet obl., compact, acute—Root forming scattered tufts—St. trique, with convex sides—Fr. ov., gibb., with 3-4 central nerves; beak winged.
- v. 2.** *Root more tufted—Spikelet longer, interr.*

- xvii.** Spikelet crowded, cylind., obt.—St. triquet, with concave sides—Fr. ov.-acum., spreading, not gibb.; beak bifid, finely serr.

*E. Spikelets barren at top, alt., simp.*

*\* Root tufted.*

- xviii.** Spikelets (5-6) dist., lax, upper approx.—Fr. ov., acute, erect, smooth, bifid.
- xix.** Spikelets (4-6), compact, approx., in an oval spike—Fr. ov.-acum., spreading, finely serr. above, bifid.

*\*\* Root creeping.*

- xx.** Spikelets in an obl., interr., spike; upper barren; intern. barren at end—Fr. ov., veined, winged, finely serr. above; shorter than the glu.
- xxi.** Spikelets in an obl., interr. spike; upper and lower fert.; intermediate barren—Fr. ov.-lanc. narrowly winged, longer than the glu.
- xxii.** Spikelets in a crowded head, with a leafy bract at base—Fr. plano-convex, veined, not winged; beak finely serr., acutely bifid.

*F. Term spikelet with barren and fertile fls.; the rest fertile.*

- xxiii.** Spikelets (1-4), roundish, contig., sess.—Fr. ob.-ov., three-angled, shortly beaked, scabr. above, longer than the ov.-obt. glu.
- xxiv.** Spikelets (3-4) obl., contig., lower rather dist. and shortly stalked—Fr. ov., compressed, at length three-angled, bifid, shorter than the ov., cuspl. glu.—Leaf sheaths with a filamentous edge.
- xxv.** Spikelets (3-4) ov.-obl., contig., shortly stalked, at length drooping—Fr. ellip., three-angled when ripe, rather shorter than the glu.; beak terete, short, slightly notched.

**SEC. III.—Terminal spikelets barren—The lower ones fertile.**

*\* Stig. two (rarely three in thir'y).*

*A. Margins of ls. revolute when dry.*

- xxvi.** Barren spikelet one; fert. short, ov., approx.—Bracts sheathing at base—Fr. ellip., obt., not ribbed
- xxvii.** Barren spikelets 1-3; fert. slender, cylind., remote, erect in fr.—Lower bract long, with long aur.—Fr. obl., ribbed.
- xxviii.** Barren spikelet one; fert. (2-3), approx., erect, thick, lower bract short—Sheaths of ls. filamentous—Fr. ellip.-obl., acute, compr., veined.

*B. Margins of ls. involute when dry.*

- xxix.** Fert., spikelets elong., narrowed below—Fr. ellip., doubly convex, not veined.

ORD. XCVI.—CYPERACEÆ—*cont.*

| Botanical Name.   | Common Name.                    | Soil or Situation.            | Colour. | Growth.   | Duration. | Time of flowering. |
|---|---------------------------------|-------------------------------|---------|-----------|-----------|--------------------|
| <b>xxx.</b> <i>C. vulgaris</i> , <i>Fries.</i><br>* *<br><i>A.</i><br>†<br>†<br>† | <i>common S.</i> . . .          | Marshes.                      | . .     | ½-2 ft.   | P.        | 6-8                |
| <b>xxxxi.</b> <i>C. limosa</i> , <i>L.</i> . .                                    | <i>Mud S.</i> . . . . .         | Bogs! . .                     | . .     | 6-12 in.  | P.        | 5-8                |
| <i>v. 2. irrigua</i> , <i>Sm.</i> . .   | . . . . .                       | . . . . .                     | . .     | . .       | . .       | . .                |
| <b>xxxii.</b> <i>C. rariflora</i> , <i>Sm.</i> .                                  | <i>loose-flowered Alpine S.</i> | Alp. bogs!                    | . .     | 6-12 in.  | P.        | 6-8                |
| <b>xxxiii.</b> <i>C. glauca</i> , <i>Scop.</i> .                                  | <i>glaucous heath S.</i>        | Moors. .                      | . .     | ½-2 ft.   | P.        | 6-7                |
| <b>xxxiv.</b> <i>C. capillaris</i> , <i>L.</i> .                                  | <i>dwarf capillary S.</i>       | Sc.mount.!                    | . .     | 4-8 in.   | P.        | 6-7                |
| <b>xxxv.</b> <i>C. pendula</i> , <i>Huds.</i>                                     | <i>great pendulous S.</i>       | Wet wds.                      | . .     | 3-6 ft.   | P.        | 5-6                |
| † †<br><b>xxxvi.</b> <i>C. vaginata</i> ,<br><i>Tausch.</i>                       | <i>short brown spiked S.</i>    | Sc.mount.!                    | . .     | 1-2 ft.   | P.        | 6-7                |
| <b>xxxvii.</b> <i>C. pallescens</i> , <i>L.</i> .                                 | <i>pale S.</i> . . . . .        | Marshes.                      | . .     | 1-2 ft.   | P.        | 6-7                |
| <b>xxxviii.</b> <i>C. panicea</i> , <i>L.</i> . .                                 | <i>pink-leaved S.</i> .         | Marshes.                      | . .     | 1-2 ft.   | P.        | 6-7                |
| † †<br>† †<br><b>xxxix.</b> <i>C. præcox</i> , <i>Jacq.</i>                       | <i>vernal S.</i> . . . . .      | Heaths .                      | . .     | 6-12 in.  | P.        | 4-5                |
| <b>xl.</b> <i>C. tomentosa</i> , <i>L.</i>  | <i>downy-fruited S.</i>         | Wet fie., Wilts!              | . .     | 12-18 in. | P.        | 6-7                |
| <b>xli.</b> <i>C. pilulifera</i> , <i>L.</i> .                                    | <i>round-headed S.</i> .        | Heaths .                      | . .     | 6-18 in.  | P.        | 6-7                |
| <b>xlii.</b> <i>C. montana</i> , <i>L.</i> .                                      | <i>Mountain S.</i> . .          | Woods!<br>W. of E.            | . .     | 6-18 in.  | P.        | 4-5                |
| <b>xliii.</b> <i>C. ericetorum</i> , <i>Poll.</i>                                 | . . . . .                       | Li. banks!<br>Gogmagog hills. | . .     | 2-6 in.   | P.        | 5-6                |
| † †<br><b>xliv.</b> <i>C. digitata</i> , <i>L.</i> . .                            | <i>fingered S.</i> . . .        | Li. woods!<br>W. of E.        | . .     | 6-10 in.  | P.        | 5-6                |
| <b>xlv.</b> <i>C. clandestina</i> , <i>L.</i>                                     | <i>dwarf silvery S.</i> .       | Li. rocks!<br>W. of E.        | . .     | 1-3 in.   | P.        | 5-6                |
| <i>B.</i><br>†<br><b>xlvi.</b> <i>C. hirta</i> , <i>L.</i> . . .                  | <i>hairy S.</i> . . . . .       | Damp woods.                   | . .     | 1-2 ft.   | P.        | 5-6                |
| <b>xlvii.</b> <i>C. filiformis</i> , <i>L.</i> .                                  | <i>slender-leaved S.</i>        | Bogs!                         | . .     | 2-3 ft.   | P.        | 5-6                |
| <b>xlviii.</b> <i>C. extensa</i> , <i>Good.</i>                                   | <i>long bracteate S.</i> .      | Salt marshes!                 | . .     | 10-18 in. | P.        | 6-7                |



## CHARACTERISTICS OF SPECIES AND VARIETIES.

- xxx.** Fert. spikelets, cylind., sub-sess.—Fr. ellip., plano-convex, many veined.  
 \* \* *Stigmas three (two in saxatilis).*  
*A. Beak of fruit entire, or obliquely notched.*  
 † *Fr. glabrous.*  
 † *Fertile spikelets drooping.*
- xxxi.** Fert. spikelets (1-2) long-stalked, ov., dense-flowered—Rt. cr.—Ls. narrow, rough at edge—Bracts auricled—Fr. round, ov., compr., ribbed.  
*v. 2. Ls. broader, rough only at point—Lower glu. narrow, attenuate; upper glu. broader and shorter.*
- xxxii.** Fert. spikelets (2-3) obl., lax, few-flowered—Rt. cr.—Bracts with short sheaths—Fr. obl., acum., shorter than the broad, blunt glu.
- xxxiii.** Fert. spikelets (2-3) dense-flowered, at length drooping—Bracts not sheathing, —Fr. ellip., obt., not veined, scab., as long as the acu. glu.
- xxxiv.** Fert. spikelets, lax., few-flowered—Rt. tufted—Lower bracts sheathing, and including several pedunc.—Fr. obl.-acum. as long as the ov., obt. glu.
- xxxv.** Fert. spikelets (4-5) cylind., very long stalked, dense-flowered—Bracts sheathing—Fr. imbric., ellip., tumid., with a short emarg. beak.  
 † † *Fert. spikes erect.*
- xxxvi.** Fert. spikelets lax, distant—Fr. ellip.-lanc., three-edged, beak trunc., decurved, obliquely notched.
- xxxvii.** Fert. spikelets ov., approx.—Fr. ov.-obl., obt., doubly convex, veined; beak o.
- xxxviii.** Fert. spikelets remote, lax-flowered—Fr. ov., tumid., not veined; beak short, terete.  
 † † *Fruit hairy.*  
 † *Bracts not sheathing.*
- xxxix.** Fert. spikelets (1-3) ov.-obl., sess., approx.—Rt. cr.—Bracts clasping—Fr. ov., three-sided, as long as the ov.-acum., glu.
- xl.** Fert. spikelets (1-2) short, cylind., shortly stalked—Rt. cr.—Lower bracts leaf-like, slightly sheathing—Fr. ob.-ov., densely downy, longer than the small acu. glu.; beak notched.
- xli.** Fert. spikelets (2-3) round, sess., approx.—Rt. fibrous—Bracts small, subu.—Fr. sub-glob., stalked, as long as the broadly ov., mucro., glu.; beak short, notched.
- xl ii.** Fert. spikelets (1-3) ov., sess., approx.—Rt. fibrous—Bracts small, membran.—Fr. obl.-ov., longer than the ob.-ov., minute glu.; beak short, notched.
- xl iii.** Fert. spikelets few, capit., small, sess.—St. curved, short—Fr. ob.-ov., three-sided, as long as the broadly ov., ciliate, obt., glu.; beak ent.  
 † † *Bracts sheathing.*
- xl iv.** Ls. revolute—Fert. spikelets, dist., erect, lin., lax—Lower bract with a setac. point.
- xl v.** Ls. involute—Fert., spikelets very remote, of 3-4 fls. enclosed in the membr. bracts.  
*B. Beak of fruit long, bifid.*  
 † *Fr. hairy—Barren spikelet sol.*
- xl vi.** Fert. spikelets (2-3) cylind., stalked—Lower bracts with long sheaths—Ls. flat, hairy—Fr. ov.-obl., with a long beak, deeply bifid at point.
- xl vii.** Fert. spikelets (3-4) obl., sess.—Lower bracts slightly sheathed—Ls. channelled—Fr. ov.-obl. narrowing into a short deeply bifid beak.  
 † † *Fr. glabrous—Barren spikelets sol.; fertile erect.*
- xl viii.** Fert. spikelets, obl., approx., sub-sess.—Bracts long, leafy, with short sheaths—Ls. convolute—Fr.-ov., three sided, ribbed, inflated; beak short, smooth, straight.

ORD. XCVI.—CYPERACEÆ—*cont.*

| Botanical Name.                              | Common Name.                     | Soil or Situation.           | Colour. | Growth.   | Duration. | Time of flowering. |
|--|----------------------------------|------------------------------|---------|-----------|-----------|--------------------|
| xlix. <i>C. flava</i> , <i>L.</i> . . . . .  | <i>yellow S.</i> . . . . .       | Boggy heaths.                | ..      | 3-18 in.  | P.        | 5-6                |
| v. 2. <i>Æderi</i> , <i>Auct.</i> . . . .    | .. . . .                         | .. . . .                     | ..      | ..        | ..        | ..                 |
| v. 3. <i>lepidocarpa</i> , <i>Tausch.</i>    | .. . . .                         | .. . . .                     | ..      | ..        | ..        | ..                 |
| 1. <i>C. distans</i> , <i>L.</i> . . . . .   | <i>loose S.</i> . . . . .        | Marshes!                     | ..      | 1-2 ft.   | P.        | 6-7                |
| li. <i>C. fulva</i> , <i>Good.</i> . . . .   | <i>tawny S.</i> . . . . .        | Marshes.                     | ..      | 12-18 in. | P.        | 6-7                |
| v. 2. <i>speirostachya</i> . . . . .         | .. . . .                         | .. . . .                     | ..      | ..        | ..        | ..                 |
| lii. <i>C. binervis</i> , <i>Sm.</i> . . . . | <i>green ribbed S.</i> . . . .   | Heaths .                     | ..      | 1-3 ft.   | P.        | 6-7                |
| liii. <i>C. lævigata</i> , <i>Sm.</i> . . .  | <i>smooth-stalked beaked S.</i>  | Marshes.                     | ..      | 1-3 ft.   | P.        | 6-7                |
| liv. <i>C. punctata</i> , <i>Gaud.</i> . .   | <i>dotted-fruited S.</i>         | Marshes!<br>S. of E.<br>& I. | ..      | 12-18 in. | P.        | 6-7                |
| lv. <i>C. depauperata</i> , <i>Good.</i>     | <i>starved wood S.</i> . . .     | Dry wds.!                    | ..      | 1-2 ft.   | P.        | 5-6                |
| † † †  |                                  |                              |         |           |           |                    |
| lvi. <i>C. sylvatica</i> , <i>Huds.</i> . .  | <i>pendulous Wood S.</i>         | Damp woods.                  | ..      | 1-3 ft.   | P.        | 5-6                |
| lvii. <i>C. strigosa</i> , <i>Huds.</i> . .  | <i>loose pendulous S.</i>        | Woods .                      | ..      | 1-2 ft.   | P.        | 5-6                |
| † † † †                                      |                                  |                              |         |           |           |                    |
| *  |                                  |                              |         |           |           |                    |
| lviii. <i>C. saxatilis</i> , <i>L.</i> . . . | <i>russet S.</i> . . . . .       | Sc. mount.                   | ..      | 4-10 in.  | P.        | 5-6                |
| v. 2. <i>Grahami</i> , <i>Boott.</i> . .     | .. . . .                         | .. . . .                     | ..      | ..        | ..        | ..                 |
| * *  |                                  |                              |         |           |           |                    |
| †  |                                  |                              |         |           |           |                    |
| lix. <i>C. vesicaria</i> , <i>L.</i> . . . . | <i>short beaked Bladder S.</i>   | Bogs . .                     | ..      | 1-2 ft.   | P.        | 5-6                |
| lx. <i>C. ampullacea</i> , <i>Good.</i> .    | <i>slender beaked Bladder S.</i> | Bogs . .                     | ..      | 1-2 ft.   | P.        | 5-6                |
| † †  |                                  |                              |         |           |           |                    |
| lxi. <i>C. Pseudo-cyperus</i> , <i>L.</i>    | <i>Cyperus-like S.</i> . . .     | Riv. banks                   | ..      | 1-3 ft.   | P.        | 6-7                |
| lxii. <i>C. paludosa</i> , <i>Good.</i> . .  | <i>lesser common S.</i>          | Ditches .                    | ..      | 2-3 ft.   | P.        | 5-6                |
| lxiii. <i>C. riparia</i> , <i>Curt.</i> . .  | <i>great common S.</i>           | Ditches .                    | ..      | 3-5 ft.   | P.        | 5-6                |

## ORD. XCVII.—GRAMINEÆ.

|   |                          |          |    |         |    |      |
|---|--------------------------|----------|----|---------|----|------|
| Gen. I. <i>Leersia</i> , <i>Soland.</i> | <i>Cut-grass.</i>        |          |    |         |    |      |
| i. <i>L. oryzoides</i> , <i>Sw.</i> . . | <i>European C.</i> . . . | Ditches! | .. | 2-3 ft. | P. | 8-10 |

## ORD. XCVI.—CYPERACEÆ—cont.

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- xlix.** Fertile spikelets, roundish-ov., approx.—Bracts long, leafy, with short sheaths—Fr. ob.-ov., inflated, spread., ribbed, much longer than the glu.; beak deflexed, scabrid.
- v. 2. Smaller—Spikelets all approx.—Beak straight.*
- v. 3. Barren spikelets long stalked—Fr. small, suddenly narrowed in a short, smooth beak.*
- i.** Fert. spikelets obl., erect, dist., upper stalks included in sheath of bracts—Fr. ov., equally ribbed, smooth; beak narrow, rough edged.
- li.** Fert. spikelets ov.-obl., dist.—Bracts with long sheaths; stalks exserted—Fr. broadly ov., ribbed; beak straight, rough edged.
- v. 2. Fertile spikelets longer stalked—Beak smoother.*
- lii.** Fert. spikelets, cylind., dist.—Stalks included in sheaths—Fr. ov., with two green ribs on outer surface; beak broad, smooth.
- liii.** Fertile spikelets cylind., dist.; stalks exserted—Fr. ov.-atten., striate; beak long, with scabrous edges.
- liv.** Fertile spikelets, cylind.; stalks slightly exserted—Fr. ov., tumid., obsoletely veined, pellucidly punctate; beak lin., smooth.
- lv.** Fert. spikelets erect, 3-4 flowered; stalks exserted—Fr. large, glob.; beak long.  
† † † *Fruit glabrous—Barren spikelets sol.—Fertile drooping.*
- lvi.** Fertile spikelets fili.; stalks half exserted—Fr. ellip., obscurely veined; beak long; smooth.
- lvii.** Fertile spikelets slender; stalks exserted—Fr. obl.-lanc., veined, narrowed at each end; beak obscure, obliquely trunc.  
† † † † *Fruit glabrous—Barren spikelets several—Fertile usually drooping, stout.*  
\* *Stigmas two.*
- lviii.** Fertile spikelets (1-3) roundish-ov., lower stalked—Fr. ov., inflated, obscurely veined; beak short, notched.
- v. 2. Taller—Fr. prominently veined.*  
(Probably an Alpine form of *C. vesicaria*, to which the Var. 2, *Grahami*, forms the passage.)  
\* \* *Stigmas three.*  
‡ *Fr. inflated.*
- lix.** Fertile spikelets, cylin., distant—Fr. broadly ov., gradually narrowed into the beak—St. sharply angled—Ls. flat.
- lx.** Fertile spikelets cylind., dist.—Fr. sub-glob., suddenly narrowed into a long slender beak—St. with obt. angles—Ls. channelled.  
‡ ‡ *Fruit not inflated.*
- lxi.** Fertile spikelets (3-6) dense, drooping, on long stalks—Fr. obl., very attenu., ribbed; beak long.
- lxii.** Fertile spikelets about three, cylind., obt., erect—Fr. obl.-ov., compressed—Glu. of barren spikelets obt.
- lxiii.** Fertile spikelets cylind., acute, erect—Fr. ob.-ov., convex on both sides—Glu. of the barren spikelets acute.

## ORD. XCVII.—GRAMINEÆ.

## Gen. I.

- i.** Pan. diff., few-flowered, with wavy branches, mostly enclosed in sheath—Ls. broad, glauc., rough edged.

## ORD. XCVII.—GRAMINEÆ—cont.

| Botanical Name.                                 | Common Name.              | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|---------------------------|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. II. <i>Spartina</i>, Schred.</b>        | <i>Cord-grass.</i>        |                          |         |          |                |                       |
| i. <i>S. stricta</i> , Roth . . .               | <i>Cord-grass</i> . . .   | Salt mar.                | . .     | 1-2 ft.  | P.             | 8-9                   |
| ii. <i>S. alternifolia</i> , Loisel.            | <i>many-spiked C.</i> .   | Salt mar.!               | . .     | 1-2 ft.  | P.             | 8-9                   |
| <b>Gen. III. <i>Cynodon</i>, Rich.</b>          | <i>Dog's-tooth-grass.</i> |                          |         |          |                |                       |
| i. <i>C. Dactylon</i> , Pers. . .               | . . . . .                 | San. sh.!                | . .     | 4-8 in.  | P.             | 7-8                   |
| <b>Gen. IV. <i>Digitaria</i>, Scop.</b>         | <i>Finger-grass.</i>      |                          |         |          |                |                       |
| i. <i>D. humifusa</i> , Pers. . .               | . . . . .                 | San. fie.!               | . .     | 6-8 in.  | A.             | 7-8                   |
| <b>Gen. V. <i>Panicum</i>, L.</b>               | <i>Panic-grass.</i>       |                          |         |          |                |                       |
| [i. <i>P. Crus-Galli</i> , L. . .               | <i>loose P.</i> . . . . . | Fields! .                | . .     | 2-3 ft.  | A.             | 7-8                   |
| <b>Gen. VI. <i>Setaria</i>, Beauv.</b>          | <i>Bristle-grass.</i>     |                          |         |          |                |                       |
| i. <i>S. viridis</i> , Beauv. . .               | <i>green B.</i> . . . . . | Fields! .                | . .     | 1-2 ft.  | A.             | 7-8                   |
| [ii. <i>S. verticillata</i> , Beauv.            | <i>rough B.</i> . . . . . | Fields! .                | . .     | 1-2 ft.  | A.             | 7-8                   |
| <b>Gen. VII. <i>Phalaris</i>, L.</b>            | <i>Canary-grass.</i>      |                          |         |          |                |                       |
| i. <i>P. arundinacea</i> , L. . .               | <i>reed C.</i> . . . . .  | San. sh. .               | . .     | 2-3 ft.  | P.             | 7-8                   |
| [ii. <i>P. canariensis</i> , L. . .             | <i>Canary-grass</i> . .   | Was. pl..                | . .     | 1-2 ft.  | P.             | 6-8                   |
| <b>Gen. VIII. <i>Anthoxan-<br/>thum</i>, L.</b> | <i>Vernal-grass.</i>      |                          |         |          |                |                       |
| i. <i>A. odoratum</i> , L. . . .                | <i>sweet V.</i> . . . . . | Past. . .                | . .     | 1-2 ft.  | P.             | 6-7                   |
| <b>Gen. IX. <i>Hierochloe</i>,<br/>Gmel.</b>    | <i>Holy-grass.</i>        |                          |         |          |                |                       |
| i. <i>H. borealis</i> , R. & S..                | <i>northern H.</i> . . .  | Thurso .                 | . .     | 10-12 in | P.             | 5-6                   |
| <b>Gen. X. <i>Phleum</i>, L.</b>                | <i>Cat's-tail-grass.</i>  |                          |         |          |                |                       |
| * . . . . .                                     |                           |                          |         |          |                |                       |
| i. <i>P. alpinum</i> , L. . . . .               | <i>Mountain C.</i> . .    | Mount. .                 | . .     | 1-2 ft.  | P.             | 7-8                   |
| ii. <i>P. pratense</i> , L. . . .               | <i>common C.</i> . . .    | Past. . .                | . .     | 2-3 ft.  | P.             | 6-7                   |
| * * . . . . .                                   |                           |                          |         |          |                |                       |
| iii. <i>P. arenarium</i> , L. . .               | <i>Sea C.</i> . . . . .   | San. sh. .               | . .     | 6-12 in. | A.             | 6-7                   |
| iv. <i>P. Boehmeri</i> , Wibel..                | <i>purple-stalked C.</i>  | Past. . .                | . .     | 1-2 ft.  | P.             | 7-8                   |
| <b>Gen. XI. <i>Alopecurus</i>, L.</b>           | <i>Fox-tail-grass.</i>    |                          |         |          |                |                       |
| i. <i>A. alpinus</i> , Sm. . . .                | <i>Alpine F.</i> . . . .  | Mount.!. .               | . .     | 1-2 ft.  | P.             | 7-8                   |
| ii. <i>A. pratensis</i> , L. . . .              | <i>common F.</i> . . .    | Past. . .                | . .     | 1-2 ft.  | P.             | 4-6                   |
| iii. <i>A. geniculatus</i> , L. . .             | <i>floating F.</i> . . .  | Ditches .                | . .     | 6-12 in. | P.             | 4-8                   |
| iv. <i>A. fulvus</i> , Sm. . . . .              | <i>Orange-spiked F.</i>   | Ditches!                 | . .     | 6-12 in. | P.             | 7-8                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

**Gen. II.**

- i. Spikes 2-3, longer than the ls.—Outer glu. one-nerved, hairy—Tip of rachis as long as last spikelet.
- ii. Spikes many, shorter than the ls.—Outer glu. five-nerved, glab. except on keel—Tip of rachis longer than last spikelet.

**Gen. III.**

- i. Spikes 3-5, digitate, purplish—Ls. downy beneath—Root creeping.

**Gen. IV.**

- i. Spikes 3-5, digitate—Spikelets purplish, ovate, in pairs.

**Gen. V.**

- i. Spike with alt. or opp. branches—Spikelets crowded—Fls. unilat.

**Gen. VI.**

- i. Pan. cylind.—Bristles of the invol. ascending.
- ii. Pan. narrow, lobed—Bristles of the invol. deflexed.]

**Gen. VII.**

- i. Pan. erect, with spread. branches—Glu. not keeled.
- ii. Pan. ovate, spike-like—Glu. with broad keels.]

**Gen. VIII.**

- i. Spike ov.-obl.—Fls. longer than their awns.—Sta. two.

**Gen. IX.**

- i. Pan. erect—Spike ov., brown—Paleæ awnless.

**Gen. X.**

\* *Glu. truncate, with a bristly point.*

- i. Pan. ov.-cylind.—Awn as long as glu.
- ii. Pan. cylind., long—Awn not half as long as glu.  
\* \* *Glu. acute at each end.*
- iii. Pan. ov.-lanc., blunt, narrowed at base—Glu. lanc., fringed.
- iv. Pan. cylind.—Glu. lin.-lanc., obliquely trunc.

**Gen. XI.**

- i. St. erect—Pan. obl.—Glu. ov., suddenly acute, conn. at base—Awn scarcely longer than the paleæ.
- ii. St. erect—Pan. cylind., obt.—Glu. lanc., acu., hairy, conn. at base—Awn twice as long as paleæ.
- iii. St. asc., bent at joints—Pan. cylind., obt., glu. obt., conn. at base—Awn longer than paleæ, inserted at base.
- iv. Very like *A. geniculatus*, but the awn is not longer than palea, and is inserted at middle—Spike pale, slender.

ORD. XCVII.—GRAMINEÆ—*cont.*

| Botanical Name.                                  | Common Name.                       | Soil or Situation. | Colour. | Growth.   | Duration. | Time of flowering. |
|--|------------------------------------|--------------------|---------|-----------|-----------|--------------------|
| v. <i>A. bulbosus</i> , <i>L.</i> . . .          | <i>tuberous F.</i> . . .           | Salt mar.!         | ..      | 12-18 in. | P.        | 5-7                |
| vi. <i>A. agrestis</i> , <i>L.</i> . . .         | <i>slender F.</i> . . . .          | Past. . .          | ..      | 1-2 ft.   | P.        | 4-6                |
| Gen. XII. <i>Knappia</i> , <i>Smith.</i>         | <i>Knappia.</i>                    |                    |         |           |           |                    |
| i. <i>K. agrostidea</i> , <i>Sm.</i> .           | . . . .                            | San. sh.!          | ..      | 2-4 in.   | P.        | 3-4                |
| Gen. XIII. <i>Gastridium</i> ,<br><i>Beauv.</i>  | <i>Nit-grass.</i>                  |                    |         |           |           |                    |
| i. <i>G. lendigerum</i> , <i>Gaud.</i>           | <i>awned N.</i> . . .              | Fie.!              | ..      | 12-18 in. | P.        | 6-10               |
| Gen. XIV. <i>Polypogon</i> ,<br><i>Desf.</i>     | <i>Beard-grass.</i>                |                    |         |           |           |                    |
| i. <i>P. littoralis</i> , <i>Sm.</i> . . .       | <i>perennial B.</i> . .            | Salt mar.!         | ..      | 1-2 ft.   | P.        | 7-8                |
| ii. <i>P. monspeliensis</i> , <i>Desf.</i>       | <i>annual B.</i> . . . .           | Fie.!              | ..      | 12-18 in. | A.        | 7-8                |
| Gen. XV. <i>Milium</i> , <i>L.</i>               | <i>Millet-grass.</i>               |                    |         |           |           |                    |
| i. <i>M. effusum</i> , <i>L.</i> . . .           | . . . .                            | Sha. woods         | ..      | 1-2 ft.   | P.        | 6-7                |
| Gen. XVI. <i>Apera</i> , <i>Beauv.</i>           | <i>Bent-grass.</i>                 |                    |         |           |           |                    |
| i. <i>A. Spica-venti</i> , <i>Beauv.</i>         | <i>silky B.</i> . . . .            | Sand fie.          | ..      | 2-3 ft.   | A.        | 7-8                |
| v. 2. <i>interrupta</i> . . . .                  | . . . .                            | . . .              | ..      | ..        | ..        | ..                 |
| Gen. XVII. <i>Agrostis</i> , <i>L.</i>           | <i>Bent-grass.</i>                 |                    |         |           |           |                    |
| i. <i>A. setacea</i> , <i>Curt.</i> . .          | <i>bristle-leaved B.</i> .         | Heaths .           | ..      | 1-2 ft.   | P.        | 7-8                |
| ii. <i>A. canina</i> , <i>L.</i> . . . .         | <i>brown B.</i> . . . .            | Fields .           | ..      | 1-2 ft.   | P.        | 6-7                |
| iii. <i>A. vulgaris</i> , <i>With.</i> . .       | <i>fine B.</i> . . . .             | Past. . .          | ..      | 12-18 in. | P.        | 7-8                |
| v. 2. <i>pumila</i> , <i>Light.</i> . .          | . . . .                            | . . .              | ..      | . . .     | . . .     | . . .              |
| iv. <i>A. alba</i> , <i>L.</i> . . . .           | <i>Marsh B.</i> . . . .            | Past. . .          | ..      | 1-2 ft.   | P.        | 7-8                |
| v. 2. <i>stolonifera</i> , <i>L.</i> . . .       | . . . .                            | . . .              | ..      | ..        | ..        | ..                 |
| Gen. XVIII. <i>Ammophila</i> ,<br><i>Host.</i>   | <i>Marram</i>                      |                    |         |           |           |                    |
| i. <i>A. arundinacea</i> , <i>Host.</i>          | <i>M., Sea-reed, or Mat-grass.</i> | San. sh. .         | ..      | 2-4 ft.   | P.        | 7-8                |
| Gen. XIX. <i>Arundo</i> , <i>L.</i>              | <i>Reed.</i>                       |                    |         |           |           |                    |
| i. <i>A. Phragmites</i> , <i>L.</i> . .          | <i>common R.</i> . . .             | Ditches, &c.       | . .     | 6-10 ft.  | P.        | 7-8                |
| Gen. XX. <i>Calamagrostis</i> ,<br><i>Adans.</i> | <i>Small-reed.</i>                 |                    |         |           |           |                    |
| i. <i>C. Epigejos</i> , <i>L.</i> . . .          | <i>Wood S.</i> . . . .             | Moi. pl. .         | ..      | 3-5 ft.   | P.        | 6-7                |
| ii. <i>C. lanceolata</i> , <i>Roth.</i> .        | <i>purple flowered S.</i>          | Moi. pl. .         | ..      | 3-4 ft.   | P.        | 6-7                |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- v. St. erect—Pan. cylin., slender—Glu. abruptly acum., free at base—Awn half as long again as palea.  
 vi. St. erect, rough—Pan. cylind., acum.—Glu. acu., united to middle, glab.—Awn more than half as long again as palea.

## Gen. XII.

- i. Sts. many—Ls. short, rough—Glu. longer than the paleæ.

## Gen. XIII.

- i. Pan. large, dense—Glu. lanc., acum.—Awns twice as long as glu.

## Gen. XIV.

- i. Root cr.—Glu. acu., as long as awns.  
 ii. Root fibr.—Glu. obt., half as long as awns.

## Gen. XV.

- i. Pan. diff.; branches spread., sub-verticillate, remote at base.

## Gen. XVI.

- i. Pan. spread., with very slender branches—Awn three or four times longer than paleæ.  
 v. 2. *Pan. close, interrupted—Anthers shorter.*

## Gen. XVII.

\* *Paleæ awned.*

- i. Ls. setac.; sheath rough—Pan. close, obt.  
 ii. Ls. narrow; sheaths smooth—Pan. spread. in fr.; otherwise close.  
 \* \* *Paleæ awnless.*  
 iii. Pan. always spread.—Ligule short, trunc.—Sheaths smooth.  
 v. 2. *Short, stout, tufted (2-3 in. high).*  
 iv. Pan. compact after flowering—Ligule long, acute—Sheaths rough.  
 v. 2. *Stems with long prostrate stolons.*

## Gen. XVIII.

- i. Ls. long, rigid, glauc., invol.—Pan. white, cylind., acum.—Pairs one-third as long as acute glu.

## Gen. XIX.

- i. Pan. large and spread., purple, nodding—Spikelets five-flowered, coloured, ribbed with a tuft of silky hairs at base.

## Gen. XX.

\* *Hairs longer than the paleæ.*

- i. Pan. erect, close—Spikelets crowded, unilat.—Awn projecting beyond the paleæ.  
 ii. Pan. loose—Spikelets spreading—Ls. narrower and smoother than the last—Awn scarcely projecting.

ORD. XCVII.—GRAMINEÆ—*cont.*

| Botanical Name.   | Common Name.               | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|----------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| * *   |                            |                          |         |           |                |                       |
| iii. <i>C. stricta</i> , Nutt. . . .                            | <i>narrow S.</i> . . . .   | Bogs ! . .               | . .     | 1-3 ft.   | P.             | 6-7                   |
| <b>Gen. XXI. Sesleria</b> , Scop. <i>Moor-grass.</i>            |                            |                          |         |           |                |                       |
| i. <i>S. cœrulea</i> , Scop. . . .                              | <i>blue M.</i> . . . .     | Mount. .                 | . .     | 1 ft.     | P.             | 5-6                   |
| <b>Gen. XXII. Aira</b> , L. <i>Hair-grass.</i>                  |                            |                          |         |           |                |                       |
| * *   |                            |                          |         |           |                |                       |
| i. <i>A. cæspitosa</i> , L. . . .                               | <i>tufted H.</i> . . . .   | Past. . .                | . .     | 1-3 ft.   | P.             | 7-8                   |
| ii. <i>A. alpina</i> , L. . . .                                 | <i>Alpine H.</i> . . . .   | Mount. ! .               | . .     | 6-12 in.  | P.             | 6-7                   |
| iii. <i>A. flexuosa</i> , L. . . .                              | <i>waved H.</i> . . . .    | Heaths .                 | . .     | 1-2 ft.   | P.             | 6-7                   |
| * *   |                            |                          |         |           |                |                       |
| iv. <i>A. caryophyllea</i> , L. .                               | <i>Silver H.</i> . . . .   | Hilly past.              | . .     | 6-9 in.   | P.             | 6-7                   |
| v. <i>A. præcox</i> , L. . . .                                  | <i>early H.</i> . . . .    | Dry pl. .                | . .     | 1-4 in.   | A.             | 5-6                   |
| * * *   |                            |                          |         |           |                |                       |
| vi. <i>A. canescens</i> , L. . . .                              | <i>grey H.</i> . . . .     | San. fie. .              | . .     | 1-2 ft.   | P.             | 7-8                   |
| <b>Gen. XXIII. Lagurus</b> , L. <i>Hare's-tail-grass.</i>       |                            |                          |         |           |                |                       |
| i. <i>L. ovatus</i> , L. . . .                                  | . . . .                    | San. sh. !<br>Guernsey.  | . .     | 6-12 in.  | A.             | 6-7                   |
| <b>Gen. XXIV. Avena</b> , L. <i>Oat-grass.</i>                  |                            |                          |         |           |                |                       |
| * *   |                            |                          |         |           |                |                       |
| i. <i>A. fatua</i> , L. . . . .                                 | <i>wild O, or Havers.</i>  | Corn fie..               | . .     | 2-3 ft.   | A.             | 6-7                   |
| ii. <i>A. strigosa</i> , Schreb. .                              | <i>Bristle O.</i> . . . .  | Corn fie. !              | . .     | 2-3 ft.   | A.             | 7-8                   |
| * *   |                            |                          |         |           |                |                       |
| iii. <i>A. pratensis</i> , L. . . .                             | <i>narrow-leaved O.</i>    | Dry past.                | . .     | 12-18 in. | P.             | 7-8                   |
| v. 2. <i>alpina</i> , Sm. . . . .                               | . . . .                    | . . . .                  | . .     | . .       | . .            | . .                   |
| iv. <i>A. pubescens</i> , L. . . .                              | <i>downy O.</i> . . . .    | Cha. pas.                | . .     | 1-2 ft.   | P.             | 6-7                   |
| v. <i>A. flavescens</i> , L. . . .                              | <i>yellow O.</i> . . . .   | Cha. pas.                | . .     | 1-2 ft.   | P.             | 6-7                   |
| <b>Gen. XXV. Arrhenatherum</b> , Beauv. <i>False Oat-grass.</i> |                            |                          |         |           |                |                       |
| i. <i>A. avenaceum</i> , Beauv.                                 | . . . .                    | Waysides                 | . .     | 2-3 ft.   | P.             | 6-7                   |
| <b>Gen. XXVI. Holcus</b> , L. <i>Soft-grass.</i>                |                            |                          |         |           |                |                       |
| i. <i>H. lanatus</i> , L. . . . .                               | <i>Meadow S.</i> . . . .   | Mead. .                  | . .     | 12-18 in. | P.             | 7-8                   |
| ii. <i>H. mollis</i> , L. . . . .                               | <i>creeping S.</i> . . . . | Mead. .                  | . .     | 6-12 in.  | P.             | 7-8                   |
| <b>Gen. XXVII. Triodia</b> , <i>Brown.</i> <i>Heath-grass.</i>  |                            |                          |         |           |                |                       |
| i. <i>P. decumbens</i> , Beauv.                                 | <i>decumbent H.</i> . .    | Mount.<br>past.          | . .     | 6-12 in.  | P.             | 7-8                   |
| <b>Gen. XXVIII. Koeleria</b> , <i>Pers.</i>                     |                            |                          |         |           |                |                       |
| i. <i>K. cristata</i> , Pers. . .                               | . . . .                    | Dry past.                | . .     | 6-8 in.   | ?              | 6-7                   |



## CHARACTERISTICS OF SPECIES AND VARIETIES.

\* \* *Hairs shorter than the palea.*

- iii. Pan. narrow, erect, close—Glu. lanc., acum.

## Gen. XXI.

- i. Much tufted—Ls. lin., obt., with a small rough point—Pan., ov.-obl.; fls. imbricated.

## Gen. XXII.

\* *Lower palea trunc., toothed.*

- i. Pan. spread.—Ls. flat—Awn straight, from below middle of palea, scarcely exceeding the glu.  
 ii. Pan. close—Ls. (mostly) invol.—Awn bent, from above the middle of palea, scarcely exceeding the glu.  
 iii. Pan. spread., with wavy branches—Ls. setaceous—Awn bent, from near the base of palea, and much exceeding it.

\* \* *Lower palea bifid.*

- iv. Pan. very spread.—Awn from below the middle of palea—Sheaths scabrous.  
 v. Pan. obt., spike-like—Awn from near base of palea—Sheaths glab.  
 \* \* \* *Lower palea entire—Awn jointed with tuft of hairs at base.*  
 vi. Pan. long, rather dense—Ls. setaceous.

## Gen. XXIII.

- i. Spikelets soft, ov —Ls. broadly lanc., downy.

## Gen. XXIV.

\* *Inner glu. 5-7 ribbed—Spikelets ultimately drooping.*

- i. Spikelets three-flowered—Lower palea bifid at end, with fulvous hairs at base.  
 ii. Spikelets two-flowered—Lower palea glab., ending in two long straight bristles.]  
 \* \* *Inner glu. with three ribs—Spikelets erect.*  
 iii. Rad. ls., glauc., glab.—Pan. lax; spikelets 3-6 flowered.  
 v. 2. *Lower ls short, suddenly acum.—Spikelets 5-6 flowered.*  
 iv. Rad. ls. hairy—Pan. nearly simp.—Outer palea jagged—Ligule acute.  
 v. Rad. ls. hairy—Pan. much branched—Outer palea with two term. bristles—Ligule obt.

## Gen. XXV.

- i. Pan. simple, lax—Ls. rough, flat, scabrous.

## Gen. XXVI.

- i. Inner glu. obt.—Awn included, smooth except at tip—Rt. fibr.  
 ii. Inner glu. acute—Awn exserted, rough throughout—Root cr.

## Gen. XXVII.

- i. Pan. racemose—Spikelets few—Ligule only a tuft of hairs.

## Gen. XXVIII.

- i. Pan. interrupted below—Lower palea acute, with a short awn.

ORD. XCVII.—GRAMINEÆ—*cont.*

| Botanical Name.                          | Common Name.                              | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--|---|--------------------------|---------|----------|----------------|-----------------------|
| <b>Gen. XXIX. Melica, L.</b>             | <i>Melic-grass.</i>                       |                          |         |          |                |                       |
| i. <i>M. uniflora, Retz.</i> . . .       | <i>Wood M.</i> . . . .                    | Sh. woods                | ..      | 1-2 ft.  | P.             | 5-7                   |
| ii. <i>M. nutans, L.</i> . . . .         | <i>Mountain M.</i> . . .                  | Mount.<br>woods.         | ..      | 1-2 ft.  | P.             | 5-6                   |
| <b>Gen. XXX. Molinia,<br/>Schränk.</b>   |   |                          |         |          |                |                       |
| i. <i>M. cærulea, Mæench.</i> . .        | <i>purple M.</i> . . . .                  | Moors. .                 | ..      | 1-2 ft.  | P.             | 7-8                   |
| <b>Gen. XXXI. Catabrosa,<br/>Beauv.</b>  | <i>Whorl-grass.</i>                       |                          |         |          |                |                       |
| i. <i>C. aquatica, Beauv.</i> . .        | <i>Water W.</i> . . . .                   | Ditches .                | ..      | 1-2 ft.  | P.             | 5-6                   |
| <b>Gen. XXXII. Glyceria,<br/>Br.</b>     | <i>Meadow-grass.</i>                      |                          |         |          |                |                       |
| i. <i>G. aquatica, Sm.</i> . . .         | <i>Reed M.</i> . . . .                    | Ditches .                | ..      | 4-6 ft.  | P.             | 4-8                   |
| ii. <i>G. fluitans, Br.</i> . . . .      | <i>floating M., or<br/>Manna-croup G.</i> | Ditches .                | ..      | 1-2 ft.  | P.             | 7-8                   |
| a. <i>fluitans</i> . . . . .             | .....                                     | .....                    | ..      | ..       | ..             | ..                    |
| b. <i>plicata</i> . . . . .              | .....                                     | .....                    | ..      | ..       | ..             | ..                    |
| <b>Gen. XXXIII. Schlerochloa, Lindl.</b> | <i>Meadow-grass.</i>                      |                          |         |          |                |                       |
| *<br>A.                                  |   |                          |         |          |                |                       |
| i. <i>S. maritima, Lindl.</i> . .        | <i>Sea M.</i> . . . . .                   | Salt mar.                | ..      | 6-12 in. | P.             | 7-9                   |
| B.                                       |   |                          |         |          |                |                       |
| ii. <i>S. distans, Bab.</i> . . .        | <i>reflexed M.</i> . . . .                | San. pl. .               | ..      | 1-2 ft.  | P.             | 7-10                  |
| v. 2. <i>Borreri, Bab.</i> . . . .       | .....                                     | Salt mar.                | ..      | ..       | ..             | ..                    |
| iii. <i>S. procumbens, Beauv.</i>        | <i>procumbent M.</i> . .                  | Salt mar.                | ..      | 6-8 in.  | A.             | 7-8                   |
| * *                                      |   |                          |         |          |                |                       |
| iv. <i>S. rigida, Link.</i> . . .        | <i>hard M.</i> . . . . .                  | Dry pl. .                | ..      | 4-6 in.  | A.             | 6-7                   |
| v. <i>S. loliacea, Woods</i> . .         | <i>Wheat M.</i> . . . .                   | San. sh. .               | ..      | 6-12 in. | A.             | 6-7                   |
| <b>Gen. XXXIV. Poa, L.</b>               | <i>Meadow-grass.</i>                      |                          |         |          |                |                       |
| A.                                       |   |                          |         |          |                |                       |
| i. <i>P. annua, L.</i> . . . . .         | <i>annual M.</i> . . . .                  | Was. pl..                | ..      | 2-10 in. | A.             | 3-10                  |
| B.                                       |   |                          |         |          |                |                       |
| ii. <i>P. pratensis, L.</i> . . .        | <i>smooth M.</i> . . . .                  | Mead.. .                 | ..      | 1-2 ft.  | P.             | 6-7                   |
| iii. <i>P. compressa, L.</i> . .         | <i>flat-stalked M.</i> .                  | Dry pl. .                | ..      | 6-8 in.  | P.             | 6-7                   |
| * *                                      |   |                          |         |          |                |                       |
| iv. <i>P. trivialis, L.</i> . . . .      | <i>rough M.</i> . . . . .                 | Mead.. .                 | ..      | 1-2 ft.  | P.             | 6-7                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XXIX.

- i. Pan. lax, slightly drooping—Spikelets erect, of one perfect fl.
- ii. Pan. a unilat, nearly simp. raceme—Spikelets drooping, with two perfect fls

## Gen. XXX.

- i. Pan. long, narrow, erect, purplish—Spikelets 1-3 flowered.

## Gen. XXXI.

- i. Pan. long, pyram. ; branches whorled, patent—Ls. lanc., obt.

## Gen. XXXII.

- i. Pan. erect, much branched—Spikelets obt., 5-10 flowered.
- ii. Pan. secund., slightly branched—Spikelets 7-12 flowered.
- a. Branches erect in fr.—Sheaths striate.
- b. Branches spread. in fr.—Sheaths furrowed.

## Gen. XXXIII.

\* *Glumes three-veined.*

*A. Root creeping.*

- i. Pan. erect, rigid ; lower branches in pairs—Ls. invol.—Lower paleæ obt., apic. mid-rib reaching to tip.
- B. Root tufted.*
- ii. Perenn.—Pan. long, branched ; branches at length deflexed—Ls. flat—Lower paleæ obt., mid-rib not reaching to tip.
- v. 2. *Branches ascending in fr.—Spikelets smaller, crowded (midway between S. maritima and S. distans).*
- iii. Ann. Pan. ob.-lanc., compact, secund. ; branches short, rigid—Lower paleæ five-ribbed.

\* \* *Glumes one-veined.*

- iv. Pan. compound, rigid, distichous—Spikelets lin.-acum.—Upper glu. reaching to base of third floret.
- v. Pan. racemose, simp., with alt., sol., lin.-obl. spikelets—Upper glu. reaching to base of fourth floret.

## Gen. XXXIV.

*A. Root annual.*

- i. Pan. spread.—Spikelets five-flo., ov.—Ls. invol.

*B. Root perennial.*

\* *Root creeping ; with stolons.*

- ii. St. terete—Pan. spread.—Upper leaf shorter than sheath.
- iii. St. compressed—Pan. slightly secund., condensed ; spikelets ov.—Upper leaf as long as sheath.

\* \* *Root fibrous ; or creeping with short stolons.*

- iv. St. and ls. rough—Pan. spread. ; spikelets ov. of three fls.—Paleæ webbed at base.

ORD. XCVII.—GRAMINEÆ—*cont.*

| Botanical Name.                                       | Common Name.                    | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|---|---------------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| <b>v.</b> <i>P. nemoralis</i> , <i>L.</i> . . . .     | <i>Wood M.</i> . . . .          | Woods .                  | ..      | 1-3 ft.   | P.             | 7-8                   |
| <i>a.</i> <i>nemoralis</i> . . . . .                  | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>b.</i> <i>Pamelii</i> , <i>Bab.</i> . . . .        | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>c.</i> <i>glauca</i> , <i>Sm.</i> . . . .          | <i>glaucous M.</i> . . . .      | Mount. .                 | ..      | . . . . . | . . . . .      | . . . . .             |
| <b>vi.</b> <i>P. laxa</i> , <i>Hacuke</i> . . . .     | <i>wavy M.</i> . . . .          | Mount.!. .               | ..      | 6-8 in.   | P.             | 7-8                   |
| <i>a.</i> <i>laxa</i> . . . . .                       | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>b.</i> <i>minor</i> , <i>Gaud.</i> . . . .         | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <b>vii.</b> <i>P. alpina</i> , <i>L.</i> . . . .      | <i>Alpine M.</i> . . . .        | Mount.!. .               | ..      | 6-8 in.   | P.             | 7-8                   |
| <b>viii.</b> <i>P. bulbosa</i> , <i>L.</i> . . . .    | <i>bulbous M.</i> . . . .       | San. pl.!. .             | ..      | 6-8 in.   | P.             | 4-5                   |
| <b>Gen. XXXV. Briza</b> , <i>L.</i>                   | <i>Quaking-grass.</i>           |                          |         |           |                |                       |
| <b>i.</b> <i>B. media</i> , <i>L.</i> . . . .         | <i>common Q.</i> . . . .        | Downs .                  | ..      | 6-12 in.  | P.             | 6-7                   |
| <b>ii.</b> <i>B. minor</i> , <i>L.</i> . . . .        | <i>least Q.</i> . . . . .       | Fields!<br>S. of E.      | ..      | 6-12 in.  | A.             | 7-8                   |
| <b>Gen. XXXVI. Cynosurus</b> ,<br><i>L.</i>           | <i>Dogs-tail-grass.</i>         |                          |         |           |                |                       |
| <b>i.</b> <i>C. cristatus</i> , <i>L.</i> . . . .     | <i>common D.</i> . . . .        | Past. . .                | ..      | 1-2 ft.   | P.             | 7-8                   |
| <b>ii.</b> <i>C. echinatus</i> , <i>L.</i> . . . .    | <i>rough D.</i> . . . .         | Jersey! .                | ..      | 6-10 in.  | A.             | 7-8                   |
| <b>Gen. XXXVII. Dactylis</b> ,<br><i>L.</i>           | <i>Cock's-foot-grass.</i>       |                          |         |           |                |                       |
| <b>i.</b> <i>D. glomerata</i> , <i>L.</i> . . . .     | <i>rough C.</i> . . . .         | Fields .                 | ..      | 1-2 ft.   | P.             | 6-8.                  |
| <b>Gen. XXXVIII. Festuca</b> ,<br><i>L.</i>           | <i>Fescue-grass.</i>            |                          |         |           |                |                       |
| *<br><i>A.</i>  |                                 |                          |         |           |                |                       |
| <b>i.</b> <i>F. uniglumis</i> , <i>Sol.</i> . . . .   | <i>single husked F.</i> . . . . | San. sh. .               | ..      | 8-12 in.  | A. or<br>B.    | 6-7                   |
| <b>ii.</b> <i>F. Myurus</i> , <i>L.</i> . . . .       | <i>Wall F.</i> . . . .          | Dry pl. .                | ..      | 6-8 in.   | A.             | 6-7                   |
| <i>a.</i> <i>sciuroides</i> , <i>Roth.</i> . . . .    | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>b.</i> <i>pseudo-myurus</i> , <i>Soy.</i> . . . .  | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>B.</i>   |                                 |                          |         |           |                |                       |
| <b>iii.</b> <i>F. ovina</i> , <i>L.</i> . . . .       | <i>Sheep's F.</i> . . . .       | Dry past.                | ..      | 6-8 in.   | P.             | 6-7                   |
| <i>a.</i> <i>ovina</i> . . . . .                      | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <b>v.</b> <i>2. tenuifolia</i> . . . . .              | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <b>v.</b> <i>3. vivipara</i> . . . . .                | . . . . .                       | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>b.</i> <i>duriuscula</i> , <i>L.</i> . . . .       | <i>hard F.</i> . . . .          | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| <i>c.</i> <i>rubra</i> , <i>L.</i> . . . .            | <i>creeping F.</i> . . . .      | . . . . .                | ..      | . . . . . | . . . . .      | . . . . .             |
| * *<br><i>A.</i>                                      |                                 |                          |         |           |                |                       |
| <b>iv.</b> <i>F. sylvatica</i> , <i>Vill.</i> . . . . | <i>Reed F.</i> . . . .          | Moi. woods               | ..      | 2-3 ft.   | P.             | 7-8                   |

ORD. XCVII.—GRAMINEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- v. St. and ls. smooth—Pan. spread.; branches slender, wavy—Spikelets lanc. of three fls.—Paleæ three-ribbed, webbed at base.  
*a.* Upper ls. as long as sheath—Ligule short—Paleæ webbed.  
*b.* Upper ls. shorter than sheath—Ligule very short—Paleæ slightly webbed.  
*c.* Ls. glauc.—Upper leaf as long as sheath—Ligule very short—Paleæ slightly webbed.  
 (*P. cæsia*, Sm. is a doubtful plant.)  
 vi. St. smooth, slightly compressed—Pan. contracted, a little drooping—Spikelets ov., 3-4 fld.  
*a.* Ls. flat—Paleæ with hairs at base.  
*b.* Ls. keeled—Glu. nerved—Paleæ webbed.  
 vii. St. glab., terete—Ls. broad, firm, obt.—Pan. loose; spikelets erect, 4-5 fld.—Ligules long, pointed.  
 viii. St. terete, swollen at base—Ls. finely serr.—Pan. close; spikelets ov., 3-4 fld. paleæ webbed at base.

## Gen. XXXV.

- i. Spikelets ov., about five-fld.—Ligule short, trunc.  
 ii. Spikelets triang., about seven-fld.—Ligule long, acute.

## Gen. XXXVI.

- i. Spike simp., elong., unilat.—Glu. with a short awn.  
 ii. Spike ov., dense—Glu. with awn as long as paleæ.

## Gen. XXXVII.

- i. Pan. branched; branches distinct, distant; with crowded, unilat., clusters of spikelets.

## Gen. XXXVIII.

\* *Radical ls. narrow.*

*A. Root annual—Awns longer than the fls.*

- i. Pan. upright, simp., unilat.—Fls. compressed, awned; lower glu. obsolete.  
 ii. Pan. upright, unilat., branched at base only—Fls. terete, awned; lower glu. distinct.  
*a.* St. leafless above—Pan. erecto-patent.  
*b.* St. leafy to near the pan.—Pan. drooping at end.  
*B. Root perennial—Awns shorter than fls.*  
 iii. Glau.—Pan. sub-unilat.—Spikelets obl., purplish.  
*a.* St. tufted, four angled, rough below the pan.—Ls. all setac.  
 v. 2. *Ls. very slend.—Glu. not awned.*  
 v. 3. *Fls. viviparous.*  
*b.* Less tufted—St. many angled, glab. below the pan.—St.-ls. flat—Glu. narrow.  
*c.* Creeping—St. many angled, glab. below the pan.—St.-ls. flat, afterwards invol.—Glu. broad.

\* \* *Radical ls. broader than the st.-ls.*

*A. Ligules of upper sheath long.*

- iv. Pan. spread., erect, repeatedly branched—Fls. 2- $\sigma$  ac., awnless, scab.

## ORD. XCVII.—GRAMINEÆ—cont.

| Botanical Name.  | Common Name.               | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|--|----------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <i>B.</i>  |                            |                          |         |         |                |                       |
| v. <i>F. elatior</i> , Auct. . . .                             | <i>tall F.</i> . . . .     | Moi. past.               | ..      | 3-5 ft. | P.             | 7-8                   |
| v. 2. <i>arundinacea</i> . . . .                               | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| vi. <i>F. pratensis</i> , Huds. . .                            | <i>Meadow F.</i> . . . .   | Mead. . .                | ..      | 1-2 ft. | P.             | 6-7                   |
| v. 2. <i>lohiacea</i> , Huds. . . .                            | <i>spiked F.</i> . . . .   | .. . . .                 | ..      | ..      | ..             | ..                    |
| vii. <i>F. gigantea</i> , L. . . .                             | <i>giant F.</i> . . . .    | Sh. pl. .                | ..      | 3-4 ft. | P.             | 7-8                   |
| <b>Gen. XXXIX. Bromus, L.</b> <i>Brome-grass.</i>              |                            |                          |         |         |                |                       |
| *<br><i>A.</i>   |                            |                          |         |         |                |                       |
| i. <i>B. erectus</i> , Huds. . . .                             | <i>upright B.</i> . . . .  | San. fie. .              | ..      | 2-3 ft. | P.             | 7-8                   |
| ii. <i>B. asper</i> , L. . . . .                               | <i>hairy B.</i> . . . .    | Woods .                  | ..      | 4-6 ft. | A.             | 7-8                   |
| <i>B.</i>  |                            |                          |         |         |                |                       |
| iii. <i>B. sterilis</i> , L. . . . .                           | <i>barren B.</i> . . . .   | Fields .                 | ..      | 1-2 ft. | A.             | 7-8                   |
| iv. <i>B. madritensis</i> , L. . .                             | <i>upright B.</i> . . . .  | Dry pl.! .               | ..      | 1-2 ft. | A.             | 6-7                   |
| v. <i>B. maximus</i> , Desf. . . .                             | <i>great B.</i> . . . .    | Jersey .                 | ..      | 1-2 ft. | A.             | 6-7                   |
| * * *  |                            |                          |         |         |                |                       |
| vi. <i>B. secalinus</i> , L. . . . .                           | <i>Rye B.</i> . . . . .    | Fields .                 | ..      | 2-3 ft. | A.             | 7-9                   |
| v. 2. <i>velutinus</i> , Sm. . . . .                           | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| vii. <i>B. racemosus</i> . . . . .                             | <i>smooth B.</i> . . . .   | Past. . .                | ..      | 2-3 ft. | A.             | 7-9                   |
| v. 2. <i>commutatus</i> , Schrad.                              | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| viii. <i>B. mollis</i> , L. . . . .                            | <i>soft B.</i> . . . . .   | Waysides                 | ..      | 1-2 ft. | A.             | 5-6                   |
| [ix. <i>B. arvensis</i> , L. . . . .                           | <i>Field B.</i> . . . . .  | Sea co. .                | ..      | 2-3 ft. | A.             | 7-8                   |
| * * *  |                            |                          |         |         |                |                       |
| [x. <i>B. squarrosus</i> , L. . . .                            | <i>Corn B.</i> . . . . .   | Corn fie.! .             | ..      | 1-2 ft. | A.             | 6-7                   |
| <b>Gen. XL. Brachypodium, Beauv.</b> <i>False Brome-grass.</i> |                            |                          |         |         |                |                       |
| i. <i>B. sylvaticum</i> , Beauv. . .                           | <i>slender F.</i> . . . .  | Woods .                  | ..      | 1-2 ft. | P.             | 6-7                   |
| ii. <i>B. pinnatum</i> , Beauv. . .                            | <i>Heath F.</i> . . . .    | Heaths .                 | ..      | 1-2 ft. | P.             | 7-8                   |
| <b>Gen. XLI. Triticum, L.</b> <i>Wheat-grass, &amp;c.</i>      |                            |                          |         |         |                |                       |
| i. <i>T. caninum</i> , Huds. . . . .                           | <i>bearded W.</i> . . . .  | Woods .                  | ..      | 1-2 ft. | P.             | 6-7                   |
| v. 2. <i>biflorum</i> , Mitten . . .                           | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| ii. <i>T. repens</i> , L. . . . .                              | <i>Couch-grass</i> . . . . | Fields .                 | ..      | 1-2 ft. | P.             | 6-7                   |
| v. 2. <i>littoralis</i> . . . . .                              | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| iii. <i>T. junceum</i> , L. . . . .                            | <i>rusky W.</i> . . . . .  | San. sh. .               | ..      | 2-3 ft. | P.             | 7-8                   |
| b. <i>acutum</i> , DC. . . . .                                 | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| c. <i>pungens</i> , Pers. . . . .                              | .. . . .                   | .. . . .                 | ..      | ..      | ..             | ..                    |
| <b>Gen. XLII. Lolium, L.</b> <i>Rye-grass.</i>                 |                            |                          |         |         |                |                       |
| i. <i>L. perenne</i> , L. . . . .                              | <i>Darnel, or R.</i> . . . | Past. . .                | ..      | 1-2 ft. | P.             | 6-7                   |

ORD. XCVII.—GRAMINEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

*B. Ligules of upper sheath very short.*

- v. Pan. spread., drooping, much branched—Spikelets ov.-lanc. of 5-10 fls.—Awn very short—Ls. lin.-lanc.  
 v. 2. *Branches of pan. divaricate after flowering.*  
 vi. Pan. close, simp., sub-secund.—Spikelets lin., of 5-10 fls.—Awn very short.  
 v. 2. *Spikelets sol., sess.—Awn. obsolete.*  
 vii. Pan. drooping, spread., branched—Spikelets of 3-6 fls.—Awn long.

## Gen. XXXIX.

\* *Lower glu. one-nerved—Upper 3-5 nerved.**A. Awn short.*

- i. Pan. erect, slightly branched—Spikelets lin.-lanc.—Fls. many, distant, compressed.  
 ii. Pan. drooping—Spikelets lin.-lanc.—Fls. cylind., remote—Lower ls. hairy.  
*B. Awn long.*  
 iii. Pan. drooping; pedunc. long, simp., ov., slightly branched—Spikelets lin.-lanc.—Ls. hairy.  
 iv. Pan. erect; pedunc. short, simp., or slightly branched—Spikelets lin.-lanc.—Stam. usually two—Awn not longer than fls.  
 v. Pan. erect, lax., ultimately drooping, slightly branched—Spikelets lanc., downy, long-stalked after flowering.

\* \* *Lower glu. 3-5 nerved—Upper 7-9 nerved.*

- vi. Pan. slightly branched, loose, spreading—Spikelets ov., compressed, about ten-flowered, glab.—Awns shorter than fls.  
 v. 2. *Spikelets downy.*  
 vii. Pan. simp., nearly erect—Spikelets ov.-obl., 6-10 flowered, smooth—Awns as long as fls.  
 v. 2. *Stouter—Lower pedunc. often branched—Spikelets shorter.*  
 viii. Pan. erect, close, slightly branched—Spikelets ov.; fls. closely imbric., hairy—Awn as long as fls.  
 ix. Pan. spreading, drooping; lower pedunc. branched—Spikelets lanc., compr., pointed—Ls. and sheaths hairy—Fls. imbric. in fr., as long as awns.]  
 \* \* \* *Lower glu. nine-nerved.*  
 x. Pan. simp., drooping—Spike ov.-obl., about twelve-flowered—Ls. downy—Awn spreading.]

## Gen. XL.

- i. Root fibr.—Ls. broad—Pan. drooping—Awn as long as glu.  
 ii. Root creeping—Ls. narrow—Pan. erect—Awn shorter than glu.

## Gen. XLI.

- i. Root fibr.—Spikelets of about five-fls.—Glu. 3-5 ribbed, acu.—Awns long, rough.  
 v. 2. *or T. alpinum (Don.); this is only T. repens.*  
 ii. Root cr.—Spikelets of about five-fls.—Glu. acum., 5-7 ribbed—Awns short.  
 v. 2. *Glauc.—Ls. invol.—Rachis smooth.*  
 iii. Glauc.—Root cr.—Spikelets of 4-6 fls.—Glu. obt., 6-10 ribbed—Awns o.  
 b. Ls. scabrous—Fls. 5-8; glu., mucro. ov. slightly awned.  
 c. Ls. very scabr., pungent—Spikelets smaller, fls. 5-12; glu. acute.

## Gen. XLII.

- i. Perenn.—Glu. shorter than the spikelet—Awns o.  
 (*L. italicum is a cultivated form of this.*)

ORD. XCVII.—GRAMINEÆ—*cont.*

| Botanical Name.                             | Common Name.             | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|---|--------------------------|--------------------------|---------|----------|----------------|-----------------------|
| ii. <i>L. temulentum</i> , <i>L.</i> . . .  | <i>bearded D.</i> . . .  | Past. . .                | ..      | 1-2 ft.  | P.             | 6-7                   |
| v. 2. <i>arvense</i> , <i>With.</i> . . .   | . . . . .                | . . . . .                | ..      | ..       | ..             | ..                    |
| Gen. XLIII. <i>Elymus</i> , <i>L.</i>       | <i>Lyne-grass.</i>       |                          |         |          |                |                       |
| i. <i>E. arenarius</i> , <i>L.</i> . . . .  | <i>Sea L.</i> . . . . .  | San. sh. .               | ..      | 3-4 ft.  | P.             | 7-8                   |
| Gen. XLIV. <i>Hordeum</i> , <i>L.</i>       | <i>Barley.</i>           |                          |         |          |                |                       |
| *<br>i. <i>H. sylvaticum</i> , <i>Huds.</i> | <i>Wood B.</i> . . . . . | Woods .                  | ..      | 1-2 ft.  | P.             | 7-8                   |
| * * *                                       |                          |                          |         |          |                |                       |
| ii. <i>H. pratense</i> , <i>Huds.</i> .     | <i>Meadow B.</i> . . . . | Moi. past                | ..      | 1-2 ft.  | P.             | 6-7                   |
| iii. <i>H. murinum</i> , <i>L.</i> . . . .  | <i>Wall B.</i> . . . . . | Dry pl. .                | ..      | 6-12 in. | A.             | 6-7                   |
| iv. <i>H. maritimum</i> , <i>With.</i>      | <i>Sea B.</i> . . . . .  | Sea co. .                | ..      | 6-12 in. | A.             | 6-7                   |
| Gen. XLV. <i>Nardus</i> , <i>L.</i>         | <i>Mat-grass.</i>        |                          |         |          |                |                       |
| i. <i>N. stricta</i> , <i>L.</i> . . . . .  | <i>common M.</i> . . . . | Moors. .                 | ..      | 8-10 in. | P.             | 6-7                   |
| Gen. XLVI. <i>Lepturus</i> ,                | <i>Hard-grass.</i>       |                          |         |          |                |                       |
| <i>R. Brown.</i>                            |                          |                          |         |          |                |                       |
| i. <i>L. filiformis</i> , <i>Trin.</i> . .  | <i>Sea H.</i> . . . . .  | Sea co. .                | ..      | 4-8 in.  | P.             | 7-9                   |

## ORD. XCVIII.—FILICES.

|   |  |                   |    |          |    |      |
|---|--|-------------------|----|----------|----|------|
| Gen. I. <i>Ceterach</i> , <i>Willd.</i>     | <i>Ceterach.</i>                       |                   |    |          |    |      |
| i. <i>C. officinarum</i> , <i>Willd.</i>    | <i>common C., or<br/>Scale-fern.</i>   | Walls . .         | .. | 4-6 in.  | P. | 4-10 |
| Gen. II. <i>Gymnogramma</i> ,               | <i>Gymnogram.</i>                      |                   |    |          |    |      |
| <i>Desv.</i>                                |  |                   |    |          |    |      |
| i. <i>G. leptophylla</i> , <i>Desv.</i>     | <i>slender G.</i> . . . . .            | Jersey! .         | .. | 1-3 in.  | A. | 3-5  |
| Gen. III. <i>Woodsia</i> , <i>Br.</i>       | <i>Woodsia.</i>                        |                   |    |          |    |      |
| i. <i>W. ilvensis</i> , <i>Br.</i> . . . .  | <i>oblong W.</i> . . . . .             | Mount.! .         | .. | 3-6 in.  | P. | 7-8  |
| ii. <i>W. hyperborea</i> , <i>Br.</i> .     | <i>round-leaved W.</i>                 | Mount.! .         | .. | 3-6 in.  | P. | 7-8  |
| Gen. IV. <i>Polypodium</i> , <i>L.</i>      | <i>Polypody, &amp;c.</i>               |                   |    |          |    |      |
| i. <i>P. vulgare</i> , <i>L.</i> . . . . .  | <i>common P.</i> . . . .               | Walls &<br>banks. | .. | 6-12 in. | P. | 7-8  |
| ii. <i>P. Phegopteris</i> , <i>L.</i> . . . | <i>Beech-fern</i> . . . .              | Dmp. wds.         | .. | 6-9 in.  | P. | 6-8  |
| iii. <i>P. Dryopteris</i> , <i>L.</i> . . . | <i>Oak-fern</i> . . . . .              | Dry woods         | .. | 6-12 in. | P. | 6-8  |
| iv. <i>P. calcareum</i> , <i>Sm.</i> . . .  | <i>limestone P.</i> . . . .            | Ch. woods         | .. | 6-12 in. | P. | 6-8  |
| Gen. V. <i>Allosorus</i> , <i>Bernh.</i>    | <i>Rock-brake.</i>                     |                   |    |          |    |      |
| i. <i>A. crispus</i> , <i>Bernh.</i> . . .  | <i>curled R., or<br/>Parsley-fern.</i> | Mount.! .         | .. | 3-8 in.  | P. | 7-8  |



ORD. XCVII.—GRAMINEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- ii. Ann.—Glu. longer than the spikelet—Awns long.  
 r. 2. *Awn o., or short.*

## Gen. XLIII.

- i. Glau.—Root cr.—Pan. erect, stout—Ls. rigid.

## Gen. XLIV.

- \* *Lat. fls. perfect—Middle barren.*  
 i. Glu. all awl-shaped ; awn of outer glu. twice as long as glu.  
 \* \* *Lateral fls. imperfect—Middle perfect.*  
 ii. Perenn.—Glu. all setaceous, rough.  
 iii. Ann.—Glu. of the lat. fls. setaceous, rough ; of the middle one lin.-lanc., cil.  
 iv. Ann.—Glu. scab. ; inner ones of the lat. fls. half-ov. ; the rest setaceous.

## Gen. XLV.

- i. Spike erect, slender ; spikelets sess., unilat.—Ls. setaceous.

## Gen. XLVI.

- i. Spike cylind., slender, erect—Glu. united at base.

## ORD. XCVIII.—FILICES.

## Gen. I.

- i. Fro. pinnfid.—pinnæ ov.-obl., covered beneath with chaffy scales.

## Gen. II.

- i. Fro. bi-pinnfid. ; pinnæ obov., cun., bifid, or three-lobed ; lobes obt.—Root ann.

## Gen. III.

- i. Fro. lanc., pinn. ; pinnæ obl., deeply pinnfid., with many obl., cren. lobes.  
 ii. Fro. lanc., pinn. ; pinnæ ov., with few broad, ent. lobes ; less scaly.

## Gen. IV.

- i. Fro. deeply pinnfid. ; pinnæ lanc., cren.  
 ii. Fro. pinn. ; pinnæ pinnfid., the lowest deflexed ; seg. lin.-lanc., obt.  
 iii. Fro. deltoid, tern., pinn., flaccid ; pinnæ pinnfid.  
 iv. Fro. sub-tern, pinn., coriac., gland-pubesc. ; pinnæ pinnfid.

## Gen. V.

- i. Barren fro. bi-tripinn. ; pinnules cun., often bifid—Fertile pinnules obl.

ORD. XCVIII.—FILICES—*cont.*

| Botanical Name.                                | Common Name.                 | Soil<br>or<br>Situation. | Colour. | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|------------------------------|--------------------------|---------|-----------|----------------|-----------------------|
| <b>Gen. VI. Cystopteris,</b><br><i>Bern.</i>   | <i>Bladder-fern.</i>         |                          |         |           |                |                       |
| i. <i>C. fragilis, Bernh.</i> . . .            | <i>brittle B.</i> . . . .    | Rocks &<br>walls.        | ..      | 4-8 in.   | P.             | 7-8                   |
| <i>a. fragilis</i> . . . . .                   | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>b. dentata, Hook.</i> . . . .               | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>c. Dickieana, Hook.</i> . . . .             | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| ii. <i>C. montana, Link.</i> . . .             | <i>Mountain B.</i> . . .     | Sc.mount.!               | ..      | 4-6 in.   | P.             | 8-9                   |
| <b>Gen. VII. Polystichum,</b><br><i>Roth.</i>  | <i>Shield-fern.</i>          |                          |         |           |                |                       |
| i. <i>P. Lonchitis, Roth.</i> . .              | <i>Holly-fern</i> . . . .    | Alp.rocks!               | ..      | 6-18 in.  | P.             | 6-8                   |
| ii. <i>P. aculeatum, Roth.</i> . .             | <i>prickly S.</i> . . . .    | Woods .                  | ..      | 6-18 in.  | P.             | 6-8                   |
| <i>a. aculeatum</i> . . . . .                  | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>b. lobatum, Sw.</i> . . . .                 | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>c. angulare, Willd.</i> . . .               | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <b>Gen. VIII. Lastræa, Presl.</b>              | <i>Buckler-fern, &amp;c.</i> |                          |         |           |                |                       |
| i. <i>L. Thelypteris, Presl.</i>               | <i>Marsh-fern</i> . . . .    | Marshes!                 | ..      | 1-2 ft.   | P.             | 7-8                   |
| ii. <i>L. Oreopteris, Presl.</i> .             | <i>Mountain F.</i> . . .     | Mount. .                 | ..      | 1-2 ft.   | P.             | 7-8                   |
| iii. <i>L. Filix-mas, Presl.</i> .             | <i>Male-fern</i> . . . .     | Sh. pl. .                | ..      | 1-3 ft.   | P.             | 7-8                   |
| <i>b. incisum, Newm.</i> . . . .               | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>c. Borreri, Newm.</i> . . . .               | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>d. abbreviata, Newm.</i> . . .              | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| iv. <i>L. rigida, Presl.</i> . . . .           | <i>rigid B.</i> . . . . .    | Mount.!                  | ..      | 1-2 ft.   | P.             | 7-8                   |
| v. <i>L. cristata, Presl.</i> . . .            | <i>crested B.</i> . . . .    | Boggy<br>heaths.!        | ..      | 1-1½ ft.  | P.             | 7-8                   |
| <i>b. uliginosa, Newm.</i> . . .               | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| vi. <i>L. spinulosa, Presl.</i> . .            | <i>spinulose B.</i> . . .    | Dmp. wds.                | ..      | 12-18 in. | P.             | 7-8                   |
| vii. <i>L. dilatata, Presl.</i> . .            | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>b. glandulosa, Newm.</i> . .                | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>c. collina, Newm.</i> . . . .               | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <i>d. nana, Newm.</i> . . . .                  | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| viii. <i>L. æmula, Brach.</i> . .              | .. . . .                     | Mount.!                  | ..      | 12-18 in. | P.             | 7-9                   |
| <b>Gen. IX. Pseudathyrium,</b><br><i>Newm.</i> |                              |                          |         |           |                |                       |
| i. <i>P. alpestre, Newm.</i> . . .             | .. . . .                     | Sc.mount.!               | ..      | 6-12 in.  | P.             | 7-8                   |
| v. 2. <i>flexile, Newm.</i> . . . .            | .. . . .                     | .. . . .                 | ..      | ..        | ..             | ..                    |
| <b>Gen. X. Athyrium, Roth.</b>                 | <i>Lady-fern.</i>            |                          |         |           |                |                       |
| i. <i>A. filix-fœmina, Bernh.</i>              | <i>Lady-fern</i> . . . .     | Moi. pl. .               | ..      | 1-5 ft.   | P.             | 7-8                   |

ORD. XCVIII.—FILICES—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. VI.

- i. Fro. ov.-lanc., bipinn.; pinnules ov., ac. lobed or toothed.
  - a. Sori. central.
  - b. Pinnules obt., unequally toothed—Sori. marginal.
  - c. Pinnules broad, overlapping—Sori. marginal.
- ii. Fro. triang., tripinn., on long stalks—Lower pinnæ the largest.

## Gen. VII.

- i. Fro. lin.-lanc., pinn., rigid; pinnæ lanc., falc., serr.; lower auricled.
- ii. Fro. lanc. bi-tripinn.; pinnules ov., sub-falc., auricled.
  - a. Fro. lanc., rigid—Pinnules obliquely decurr.
  - b. Fro. narrower, rigid—Pinnules decurr., sess., less divided.
- c. Fro. lax—Pinnules thin, membran., distinctly stalked, teeth awned.
 

(*Lonchitioides is a starved form of this.*)

## Gen. VIII.

- i. Fro. pinn.; pinnæ pinnfid. not glandular; lower pinnæ not shorter than the upper—Rt. creeping.
- ii. Fro. pinn.; pinnæ pinnfid., glandular, sweet-scented; gradually decreasing from the middle of fro.—Rt. tufted.
- iii. Fro. ov.-lanc., pinn.—Pinnæ pinnfid., lower ones rather smaller—Pinnules obl., blunt, serr.
  - b. Pinnules less crowded, obl.-lanc., deeply serr.
  - c. St. covered with golden yellow scales—Pinnules almost trunc., less serr.
  - d. Small—Fro. pinn.; pinnules very blunt, crowded.
- iv. Fro. obl.-lanc., bi-pinn., gland.; pinnules obl., blunt serr., not spinulose—Stalk covered with chaffy scales.
- v. Fro. lin.-obl., erect, pinn.; pinnæ, short, distant, deeply pinnfid.; pinnules obl.-ov., acutely serr., but not spinulose.
  - b. Pinnules more divided, teeth slightly spinulose.
- vi. Fro. pale green, lanc., pinn.; pinnæ pinnfid.; pinnules acute, serr., spinulose—Scales on st. ov., few, uniformly coloured.
- vii. Fro. dark green, ov.-triang., bipinn.; pinnules, serr., spinulose—Scales on st. lanc., acum., centre dark brown.
  - b. Fro. broader, more gland. beneath.
  - c. Fro. obl.-lanc.—Pinnules ov., blunt, sub-entire, less spinulose.
  - d. Small—Fro. ov.-triang.—Scales narrow, pale.
- viii. Fro. ov.-triang., bi-pinn.; pinnules obl.-ov., lobed, their margins recurved—Scales of st. many, small, narrow, jagged, pale.

## Gen. IX.

- i. Fro. obl.-lanc., bipinn.; pinnules crowded, ov.-obl., acute, lobed or pinnfid.: sharply toothed.
- v. 2. Stem short—Pinnæ short, ov.-lanc.; pinnules distant.

## Gen. X.

- i. Fro. obl.-lanc., flaccid, bi-pinn.—Pinnules lin. obl., deeply serr., lobed or pinnfid.; sharply toothed.

ORD. XCVIII.—FILICES—*cont.*

| Botanical Name.                                | Common Name.                           | Soil or Situation. | Colour.   | Growth.   | Dura-<br>tion. | Time of<br>flowering. |
|--|--|--------------------|-----------|-----------|----------------|-----------------------|
| <i>a. rhæticum</i> . . . . .                   | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <i>b. latifolium</i> . . . . .                 | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <i>c. incisum</i> . . . . .                    | . . . . .                              | . . . . .          | . . . . . | . . . . . | . . . . .      | . . . . .             |
| <b>Gen. XI. Asplenium, L.</b>                  | <i>Spleenwort.</i>                     |                    |           |           |                |                       |
| i. <i>A. viride, Huds.</i> . . . .             | <i>green S.</i> . . . . .              | Rocks .            | . . .     | 6-12 in.  | P.             | 6-9                   |
| ii. <i>A. Trichomanes, L.</i> . .              | <i>common S., or<br/>Maidenhair S.</i> | Walls &<br>rocks.  | . . .     | 6-12 in.  | P.             | 6-9                   |
| v. 2. <i>anceps</i> . . . . .                  | . . . . .                              |                    | . . .     | . . .     | . . .          | . . .                 |
| iii. <i>A. marinum, L.</i> . . . .             | <i>Sea S.</i> . . . . .                | Sea cliffs         | . . .     | 3-10 in.  | P.             | 6-10                  |
| iv. <i>A. lanceolatum, Huds.</i>               | <i>lanceolate S.</i> . . .             | Wet rocks!         | . . .     | 6-9 in.   | P.             | 6-9                   |
| v. <i>A. Adiantum-nigrum,</i><br><i>L.</i>     | <i>black S.</i> . . . . .              | Banks &<br>walls.  | . . .     | 6-12 in.  | P.             | 6-10                  |
| v. 2. <i>acutum, Bory.</i> . . . .             | . . . . .                              |                    | . . .     | . . .     | . . .          | . . .                 |
| vi. <i>A. ruta-muraria, L.</i> . .             | <i>Wall-rue</i> . . . . .              | Walls, &c.         | . . .     | 1-2 in.   | P.             | 6-10                  |
| vii. <i>A. septentrionale,</i><br><i>Hull.</i> | <i>forked S.</i> . . . . .             | Mount.<br>rocks!   | . . .     | 1-2 in.   | P.             | 6-10                  |
| viii. <i>A. germanicum, Weiss.</i>             | <i>alternate-leaved S.</i>             | Rocks! .           | . . .     | 2-3 in.   | P.             | 6-10                  |
| <b>Gen. XII. Scolopendrium,</b><br><i>Sw.</i>  | <i>Hart's-tongue.</i>                  |                    |           |           |                |                       |
| i. <i>S. vulgare, Sym.</i> . . . .             | <i>common H.</i> . . . .               | Sh. pl. .          | . . .     | 1-2 ft.   | P.             | 7-8                   |
| <b>Gen. XIII. Blechnum, L.</b>                 | <i>Hard-fern.</i>                      |                    |           |           |                |                       |
| i. <i>B. boreale, Sw.</i> . . . .              | <i>northern H.</i> . . . .             | Woods .            | . . .     | 6-9 in.   | P.             | 7-8                   |
| <b>Gen. XIV. Pteris, L.</b>                    | <i>Brake.</i>                          |                    |           |           |                |                       |
| i. <i>P. aquilina, L.</i> . . . . .            | <i>common B.</i> . . . .               | San. pl. .         | . . .     | 2-6 ft.   | P.             | 7-8                   |
| <b>Gen. XV. Adiantum, L.</b>                   | <i>Maiden-hair.</i>                    |                    |           |           |                |                       |
| i. <i>A. Capillus-Veneris, L.</i>              | <i>true M.</i> . . . . .               | Rocks! .           | . . .     | 4-12 in.  | P.             | 7-8                   |
| <b>Gen. XVI. Trichomanes,</b><br><i>L.</i>     | <i>Bristle-fern.</i>                   |                    |           |           |                |                       |
| i. <i>T. radicans, Sw.</i> . . . .             | <i>rooting B.</i> . . . . .            | Wet<br>rocks! I.   | . . .     | 4-10 in.  | P.             | 6-9                   |
| v. 2. <i>Andrewsii.</i> . . . . .              | . . . . .                              | . . . . .          | . . .     | . . .     | . . .          | . . .                 |
| <b>Gen. XVII. Hymenophyl-<br/>lum, Sm.</b>     | <i>Filmy-fern.</i>                     |                    |           |           |                |                       |
| i. <i>H. Tunbridgense, Sm.</i>                 | <i>Tunbridge F.</i> . . .              | Wet rocks!         | . . .     | 1-3 in.   | P.             | 6-7                   |
| ii. <i>H. Wilsonii, Hook.</i> . .              | <i>Scottish F.</i> . . . .             | Wet rocks!         | . . .     | 1-3 in.   | P.             | 6-7                   |
| <b>Gen. XVIII. Osmunda, L.</b>                 | <i>Osmund.</i>                         |                    |           |           |                |                       |
| i. <i>O. regalis, L.</i> . . . . .             | <i>royal-fern</i> . . . .              | Bogs . .           | . . .     | 2-5 ft.   | P.             | 6-8                   |
| <b>Gen. XIX. Botrychium,</b><br><i>Sw.</i>     | <i>Moon-wort.</i>                      |                    |           |           |                |                       |
| i. <i>B. lunaria, Sw.</i> . . . .              | <i>common M.</i> . . . .               | Dry past.!         | . . .     | 3-6 in.   | P.             | 6-8                   |

## CHARACTERISTICS OF SPECIES AND VARIETIES.

- a.* Fro. narrow, lanc.—Pinnules narrow, distinct, convex.
- b.* Fro. narrow, lanc.—St. short—Pinnules ov., crowded, irregularly lobed.
- c.* Fro. very large, dark green—Pinnules obl.-lanc., flat, deeply pinnfid.

**Gen. XI.**

- i.* Fro. lin., pinn., their stalk green—Pinnæ roundish-ov., obtusely serr.
  - ii.* Fro. lin., pinn., their stalk black—Pinnæ roundish-obl., cren.
- v. 2. Larger.*
- iii.* Fro. obl.-lanc., pinn., coriac.; pinnæ obl., serr.—Rachis winged.
  - iv.* Fro. broadly lanc., bipinn.—Pinnules obov., acu., serr.—Rachis scaly, not winged
  - v.* Fro. triang., bi-tri-pinn.; pinnules cun., deeply serr. or toothed.
- v. 2. Fro. tripinn., very acum.—Pinnules lin., acu.*
- vi.* Fro. ov., bi-pinn. below; pinnæ cuneate, lobed at apex.
  - vii.* Fro. lin.-lanc., 2-3 cleft—Seg. alt., lanc., toothed.
- viii.* Fro. lin.-pinn.—Pinn. alt., narrow cuneate, toothed above.

**Gen. XII.**

- i.* Fro. ent., strap-shaped; base cord.

**Gen. XIII.**

- i.* Fert. fro. pinn.; pinnæ lin., acu.—Barren fro. pinnfid.; pinnæ lanc., obt.

**Gen. XIV.**

- i.* Fro. tripart.—Branches bi-pinn.; pinnules lanc., blunt, the lower pinnfid.

**Gen. XV.**

- i.* Fro. bi-pinn.—Pinnules round, wedge-shaped, lobed, stalked.

**Gen. XVI.**

- i.* Fro. triang., glab., 3-4 pinnfid.—Seg. lin. entire, membran.
- v. 2. Fro. lanc.—Invol. winged.*

**Gen. XVII.**

- i.* Fro. pinn.—Pinnæ spreading—Invol. serr.
- ii.* Fro. pinn.—Pinnæ deflexed—Invol. entire.

**Gen. XVIII.**

- i.* Fro. bi-pinn.; pinnæ obl.-ov., serr., lower auricled.

**Gen. XIX.**

- i.* Fro. sol., pinn.—Pinnæ fan-shaped, cren.

ORD. XCVIII.—FILICES—*cont.*

| Botanical Name.                            | Common Name.           | Soil<br>or<br>Situation. | Colour. | Growth. | Dura-<br>tion. | Time of<br>flowering. |
|--|------------------------|--------------------------|---------|---------|----------------|-----------------------|
| <b>Gen. XX. Ophioglossum,</b><br><i>L.</i> | <i>Adder's-tongue.</i> |                          |         |         |                |                       |
| i. <i>O. vulgatum, L. . . .</i>            | <i>common A. . . .</i> | Moi. past.               | ..      | 2-8 in. | P.             | 6-8                   |
| v. 2. <i>lusitanicum, L. . . .</i>         | .....                  | ....                     | ..      | ..      | ..             | ..                    |

## ORD. XCIX.—LYCOPODIACEÆ.

|   |                             |                      |    |          |    |     |
|---|-----------------------------|----------------------|----|----------|----|-----|
| <b>Gen. I. Lycopodium, L.</b>                 | <i>Club-moss.</i>           |                      |    |          |    |     |
| i. <i>L. clavatum, L. . . .</i>               | <i>common C. . . .</i>      | Heaths .             | .. | 1-3 ft.  | P. | 7-8 |
| ii. <i>L. annotinum, L. . . .</i>             | <i>interrupted C. . . .</i> | Sc. mount.!          | .. | 6-18 in. | P. | 7-8 |
| iii. <i>L. inundatum, L. . . .</i>            | <i>Marsh C. . . .</i>       | Moi. hths.           | .. | 2-6 in.  | P. | 6-8 |
| iv. <i>L. alpinum, L. . . .</i>               | <i>Alpine C. . . .</i>      | Mount.!              | .. | 6-18 in. | P. | 6-8 |
| v. <i>L. Selago, L. . . .</i>                 | <i>Fir C. . . .</i>         | Heaths .             | .. | 2-6 in.  | P. | 6-8 |
| <b>Gen. II. Selaginella,</b><br><i>Beauv.</i> |                             |                      |    |          |    |     |
| i. <i>S. selaginoides, L. . . .</i>           | .....                       | Sc. bogs.            | .. | 2-6 in.  | P. | 6-8 |
| <b>Gen. III. Isoetes, L.</b>                  | <i>Quill-wort.</i>          |                      |    |          |    |     |
| i. <i>I. lacustris, L. . . .</i>              | <i>European Q. . . .</i>    | Bottoms<br>of lakes! | .. | 2-6 in.  | P. | 5-7 |
| <i>a. lacustris, L. . . .</i>                 | .....                       | ..                   | .. | ..       | .. | ..  |
| <i>b. echinospora, Dur. . . .</i>             | .....                       | ..                   | .. | ..       | .. | ..  |
| ii. <i>I. Hystris, Dur. . . .</i>             | .....                       | Guernsey!            | .. | 1-2 in.  | P. | 5-6 |

## ORD. C.—MARSILEACEÆ.

|                                    |                          |                 |    |         |    |     |
|------------------------------------|--------------------------|-----------------|----|---------|----|-----|
| <b>Gen. I. Pilularia, L.</b>       | <i>Pill-wort.</i>        |                 |    |         |    |     |
| i. <i>P. globulifera, L. . . .</i> | <i>creeping P. . . .</i> | Lake<br>shores! | .. | 2-4 in. | P. | 5-7 |

## ORD. CI.—EQUISETACEÆ.

|                                   |                          |            |    |         |    |     |
|-----------------------------------|--------------------------|------------|----|---------|----|-----|
| <b>Gen. I. Equisetum, L.</b><br>* | <i>Horse-tail.</i>       |            |    |         |    |     |
| i. <i>E. maximum, Lam. . .</i>    | <i>great Water H. .</i>  | Bogs . .   | .. | 3-6 ft. | P. | 4-5 |
| ii. <i>E. umbrosum, Willd.</i>    | <i>blunt-topped H. .</i> | Bogs! . .  | .. | 1-2 ft. | P. | 4-5 |
| iii. <i>E. arvense, L. . . .</i>  | <i>Corn H. . . .</i>     | Fie. . . . | .. | 3-8 in. | P. | 4-5 |

ORD. XCVIII.—FILICES—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

## Gen. XX.

- i. Fro. ov., ent., obt.—Spike club-shaped.  
 v. 2. Fro. lin.-lanc., fleshy (*Guernsey*).

## ORD. XCIX.—LYCOPODIACEÆ.

## Gen. I.

- i. St. long, cr.—Ls. scattered, incurved, hair pointed—Spikes (2-3) stalked.  
 ii. St. long, cr.—Ls. scattered, lanc., mucro., serr.—Spike sol., sess.  
 iii. St. short, cr.—Ls. scattered, lin., acu., curved upwards—Spike sol., sess.  
 iv. St. long, cr.—Ls. in four rows, obl., keeled, acu., adpr.—Spikes sol., sess.  
 v. St. erect, forked, fastigiate—Ls. in eight rows, lin.-lanc., acu., imbric.—Caps not spiked, but in the axils of the common ls.

## Gen. II.

- i. St. cr., slender—Ls. lanc., cili.—Spikes on short erect branches.

## Gen. III.

- i. Aquatic—Ls. subu., bluntly quadrang.  
 a. Ls. erect, green—Caps. half covered by the leaf-sheath.  
 b. Ls. spreading, pale—Caps. almost covered by the leaf-sheath.  
 ii. Terrestrial—Ls. filiform.

## ORD. C.—MARSILEACEÆ.

## Gen. I.

- i. Rhizome slend., cr.—Ls. fili., erect.

## ORD. CI.—EQUISETACEÆ.

## Gen. I.

\* *Fert. sts. simp., succulent, appearing before the whorled, barren stem.*

- i. Barren st. with about thirty striæ, smooth—Branches erect; teeth of sheaths two-ribbed.  
 ii. Barren st. with about twenty striæ, rough—Branches spreading; teeth of sheaths blunt, with one rib, not reaching to tip—Sheaths of fert. sts. adpr.  
 iii. Barren st. with about 10-15 striæ, slightly rough—Branches spreading; teeth of sheaths acu., with one rib reaching to tip—Sheaths of fert. sts. lax.

ORD. CI.—EQUISETACEÆ—*cont.*

| Botanical Name.                            | Common Name.             | Soil<br>or<br>Situation. | Colour. | Growth.  | Dura-<br>tion. | Time of<br>flowering. |
|--|--------------------------|--------------------------|---------|----------|----------------|-----------------------|
| * *  |                          |                          |         |          |                |                       |
| <i>A.</i>                                  |                          |                          |         |          |                |                       |
| iv. <i>E. sylvaticum</i> , <i>L.</i> . .   | <i>Wood H.</i> . . . .   | Damp<br>woods            | . .     | 1-2 ft.  | P.             | 4-5                   |
| <i>B.</i>                                  |                          |                          |         |          |                |                       |
| v. <i>E. palustre</i> , <i>L.</i> . . . .  | <i>Marsh H.</i> . . . .  | Bogs . .                 | . .     | 6-18 in. | P.             | 6-7                   |
| v. 2. <i>alpinum</i> . . . . .             | . . . . .                | . . . .                  | . .     | . .      | . .            | . .                   |
| v. 3. <i>polystachion</i> . . . . .        | . . . . .                | . . . .                  | . .     | . .      | . .            | . .                   |
| vi. <i>E. limosum</i> , <i>L.</i> . . .    | <i>smooth naked H.</i>   | Bogs . .                 | . .     | 1-3 ft.  | P.             | 6-7                   |
| <i>a. limosum</i> . . . . .                | . . . . .                | . . . .                  | . .     | . .      | . .            | . .                   |
| <i>b. fluviatile</i> . . . . .             | . . . . .                | . . . .                  | . .     | . .      | . .            | . .                   |
| vii. <i>E. hyemale</i> , <i>L.</i> . . .   | <i>rough H.</i> . . . .  | Boggy<br>woods.          | . .     | 1-3 ft.  | P.             | 7-8                   |
| viii. <i>E. trachyodon</i> , <i>Braun.</i> | <i>long-stemmed H.</i>   | . . . .                  | . .     | . .      | . .            | . .                   |
| v. 2. <i>Moorei</i> , <i>Newm.</i> . .     | . . . . .                | . . . .                  | . .     | . .      | A.             | . .                   |
| ix. <i>E. variegatum</i> , <i>Sch.</i> .   | <i>variegated H.</i> . . | Wet pl. .                | . .     | 1-2 ft.  | P.             | 7-8                   |
| <i>o. Wilsoni</i> , <i>Newm.</i> . . .     | . . . . .                | . . . .                  | . .     | . .      | . .            | . .                   |
| <i>c. arenarium</i> . . . . .              | . . . . .                | San. sh..                | . .     | . .      | . .            | . .                   |



ORD. CI.—EQUISETACEÆ—*cont.*

## CHARACTERISTICS OF SPECIES AND VARIETIES.

\* \* Fertile and barren stems similar.

A. Branches compound.

iv. Sts. with many whorls of compound deflexed branches.

B. Branches simple or none.

v. Sts. with 4-10 deep furrows—Sheaths loose, their teeth wedge-shaped, acu., with membran. tips.

v. 2. A stunted form—St. almost simple.

v. 3. Upper branches all fertile.

vi. St. smooth, with 15-20 faint striæ—Branches often none, or irregular—Sheaths short, adpr.; teeth short, rigid.

a. Smooth—Branches short or o., rigid, as long as the internodes.

b. Slightly scab. above—Branches longer than the internodes.

vii. St. rough, with 15-20 distinct striæ, glauc.—Branches o., or all rad.; sheaths close, white, with black base and tip; teeth black, deciduous.

viii. St. rough, with 8-12 distinct striæ—Branches rad., long, flexuous; sheaths close, black; teeth slender, persist., white.

v. 2. St. ann.—Sheaths loose.

ix. St. rough, with 4-10 grooves, fili., simp., or with rad. branches—Sheaths green below, black above, with obt., bristle-pointed teeth.

b. Tall (2-3 ft.) erect—Teeth of sheaths short, obt.

c. St. decumb., slend.—Teeth of sheaths cuneate.



## APPENDIX.

SPECIES AND VARIETIES WHICH HAVE BEEN OBSERVED AND ADDED  
TO THE LONDON CATALOGUE IN ITS SEVENTH EDITION.

## \* RANUNCULACEÆ.

**Anemone ranunculoides**, *L.* Sep. 5, yellow—Ls. ternate or quinate.—*King's Langley, Herts, and Wrotham, Kent.*

**R. aquatilis**. *The Batrachian Ranunculi require longer descriptions than is possible to give in this book, in order to satisfactorily describe and arrange them. Reference should be made to the 'Journal of Botany,' vol. ix., where Mr. Hiern describes some twenty different forms.*

**R. chærophyllus**, *L.* Outer ls. ternate, hairy on both sides; segments once or twice tripartite—St. hairy—Carpels numerous, crowded; beak curved at top.—*St. Brelade's Bay, Jersey.*

**Pæonia corallina**, *Retz.* Ls. biternate—Fls. large, crimson. *Steep Holmes Island, in the Severn.—Introduced.*

## BERBERACEÆ.

**Epimedium alpinum**, *L.* Ls. all cauline, biternate—Fls. red.—*Sub-alpine woods, &c.—An escape.*

## CRUCIFERÆ.

**Camelina sativa**, *Cr.* *a. fatida*—Pods obovate, truncate at apex.—*b. sylvestris*—Pods obconical, rounded at apex.—*A casual in flax fields, &c.*

**Alyssum incanum**, *L.* Resembling *A. calycinum*—Seeds six or more in each cell—Pods pubescent, sub-ventricose.—*Lewes and Weymouth.*

## DROSERACEÆ.

**Drosera angelica**. *b. obovata*—Ls. broader, and styles sometimes emarginate.—*Scotland.*

## CARYOPHYLLACEÆ.

**Silene italica**, *Pers.* Resembles *S. nutans*, but has a long, clavate calyx, and the seg. of the corolla broader and not crowned.—*Between Darenth and Dartford, Kent.*

**S. Armeria**, *L.* St. erect, viscid—Pan. forked, level-topped.—Ls. ov.-lanc., glab.—Cal. glab.—Pet. notched, with an awl-shaped scale.—*Yalding, formerly near Chester.*

**Cucubalus bacciferus**, *L.* Ls. ovate, acute—Fruit fleshy.—*Isle of Dogs.—Introduced.*

**Cerastium triviale**, *Link.* *d. alpestre*—Dwarf, fls. much larger.—*Clova.*

## PORTULACACEÆ.

**Claytonia perfoliata**, *Don.* St. tufted, ascending—Rad. ls. fleshy, rhomboid, stalked; st. ls. connate—Fls. small, white, in terminal racemes; pet. entire.

**C. alsinoides**, *Sims.* Resembling the last, but rad. ls. ovate, acuminate—St. ls. sess., orb.—Fls. larger; pet. bifid.—*Both plants are now naturalized in many places.*

## MALVACEÆ.

**Malva verticillata**, *L.* St. erect—Outer sep. lin.—Pet. not longer than sep.—*Near Llanelly, South Wales.*

**M. borealis**, *Wallm.* St. decumbent—Resembling *M. rotundifolia*, but fls. much smaller, scarcely longer than calyx.—*Waste places.*

**Lavatera sylvestris**, *Brot.* Pet. thrice as long as cal., narrow, notched, pale rose-purple—Outer calyx shortest, inner with acuminate divisions.—*Scilly Islands, and near Penzance.*

## HYPERICACEÆ.

**Hypericum hircinum**, *L.* Shrubby—Ls. sess., lanc., acute—Fls.  $1\frac{1}{2}$  in. across; pet. longer than sep.; stamens very long.—*Woods and thickets, planted.*

**H. elatum**, *L.* Shrubby—Ls. sess., broadly lanc., sub-cord., acute—Cymes terminal, few flowered—Resembling *H. Androsænum*, but pet., stamens, and styles longer.—*Woods and thickets in S.W. of Eng. and W. of Scotland; planted.*

## GERANIACEÆ.

**Geranium sanguineum**, *L.* *b. prostratum*—St. decumbent, hairy—Ls. not so deeply divided.—*Sandy shores.*—*c. Lancastriense*—As var. *b.* with white or pink fls.—*Walney Island.*

**G. nodosum**, *L.* St. erect, slender, glab.—Ls. 3-5 lobed; lower ones long stalked—Fls. in a terminal cyme; pedunc. two-flowered; pet. pale purple.

**G. striatum**, *L.* Resembling the last, but stem hairy, and fls. white veined with purple.—*Both species naturalized in many places.*

**Impatiens parviflora**, *D.C.* Much resembling the other species—Ls. acute at both ends—Fls. small; spur short.—*Common in many places.*

## CELASTRACEÆ.

**Staphylea pinnata**, *L.* Ls. pinnate—Capsule bladdery—Fls. yellowish white.—*Shrubberies.—An escape.*

## LEGUMINOSÆ.

**Sarothamnus scoparius**, *Koch.* *b. prostratus*—A prostrate form found at Kynance Cove.

**Melilotus parviflora**, *Lam.* Annual—Much smaller than the other species—Racemes dense in fl., lax in fruit—Fls. pale yellow; pods one-seeded, distinctly wrinkled.—*Waste places, &c.*

**Trifolium resupinatum**, *L.* Resembles *T. fragiferum*—Heads with shorter peduncles; cor. resupinate, bracts minute.—*Bristol, Poole, New Brighton, &c.*

## ROSACEÆ.

**Dryas octopetala**, *L.* *b. depressa*—Sep. shorter and blunt—Base of calyx truncate.—*Ben Bulbin, Sligo.*

## ONAGRACEÆ.

**Oenothera odorata**, *Jacq.* Capsule clavate, not tapering to apex as *O. biennis*—Foliage brighter and fls. deeper yellow.—*Plymouth and Channel Islands.*

## HALORAGIACEÆ.

**Callitriche obtusangula**, *Le Gal*. Fruit nearly sess.; lobes parallel, with rounded edges.—*Brading, I. of W.*

**C. truncata**, *Guss.* Fruit shortly stalked; lobes with a blunt dorsal ridge—Bracts o.—Ls. very abrupt at end.—*Amberley, Sussex.*

## SAXIFRAGACEÆ.

**Saxifraga Sternbergii**, *Willd.* Lobes of ls. lanc., pointed, fringed—Pet. obovate; sep. blunt.—*Ireland.*

**S. decipiens**, *Ehrh.* Differs from *S. cæspitosa* by the lobes of the ls. being less perfectly parallel sided, and by having longer fl. stems.—*Carnarvonshire.*

## UMBELLIFERÆ.

**Angelica archangelica**, *L.* Ls. very large; lfts. ov.-lanc.—Fls. greenish white.—*Watery places.—An escape.*

**Anthriscus abortivus**, *Ford.* Differs from *A. sylvestris* by its paler and less divided leaves, and the absence of hairs at base of fruit.—*Wood near Perth.*

## RUBIACEÆ.

**Asperula taurina**, *L.* Ls. four in a whorl, elliptical, three-veined.—*Cadeby, Leicestershire; Casterton Woods, Westmoreland.*

**A. arvensis**, *L.* Annual—Ls. obt., lin.-lanc., 6-10 in a whorl—Fls. blue.—*Devonport.*

## VALERIANACEÆ.

**Centranthus calcitrapa**, *Dufr.* Rad. ls. ov., ent.; st. ls. pinnfid., short.—*Eltham.*

## DIPSACEÆ.

**Dipsacus fullonum**, *Mill.* Scales of the involucre hooked at the end.—*W. of E.—An escape.*

## COMPOSITÆ.

**Anacyclus radiatus**, *Lois.* Ls. woolly, bi-pinnfid.—Ray yellow.—*Dunboy Quay, Bearhaven, Cork.*

**Centaurea paniculata**, *L.* St. laxly corymbose—Fls. pink—Appendages pale; phyllaries five-ribbed.—*West Coast of Jersey.*

**Matricaria inodora**, *L.* *b. salina*—Leaf segments short, fleshy, crowded.—*Sea shores.—c. maritima*—Leaf segments long—Receptacle broader.—*Sea shore, N. of Scotland.*

**Anthemis tinctoria**, *L.* Receptacle hemispherical—Rays and disk yellow.—*Ballast heaps.—An escape.*

**Achillea tanacetifolia**, *All.* Ls. bi-pinnfid., with a lanc. outline—Rachis winged, serrate.—*Ringing Low, Sheffield; Cromford Moor, Derbyshire.*

**A. decolorans**, *Sch.* Ls. lin.-lanc., downy, opaque—Ray buff-coloured.—*Near Matlock.*

**A. tomentosa**, *L.* Ls. woolly, pinnfid.—Corymbs much branched—Rays golden yellow.—*Many places in Scotland (possibly native).*

**Petasites fragrans**, *Presl.* (*Winter Heliotrope*). Outer florets ligulate—Fls. pale purple, very fragrant.—*Naturalized in many places.*

## COMPOSITÆ (continued).

**P. albus**, Gaertn. Resembles *P. vulgaris*—Ls. smaller and more deeply scalloped—Fls. white or cream coloured.—*Several places in Scotland; naturalized.*

**Sonchus arvensis**, L. *b. glabra*—A robust form with eglandulose inflorescence.

**Xanthium strumarium**, L. Lower ls. heart-shaped, three-lobed at base—Involucre prickly.—*Waste places.—A casual.*

## GENTIANACEÆ.

**Erythræa tenuifolia**, Link. Fls. of *E. pulchella* with habit of *E. centaurium*.—*Isle of Wight.*

## CONVOLVULACEÆ.

**Cuscuta hassiaca**, Pfeiff. Flowers stalked, scented like Heliotrope.—*A casual on lucerne, in Essex.*

## SOLANACEÆ.

**Datura stramonium**, L. Ls. ovate, unequally serr.—Flowers large, white.—*A casual on dung-hills, &c.*

**Lycium barbatum**, L. (*Tea plant*). St. straggling with pendulous, spinous branches; ls. narrow lanc.—Fls. purple.—*Naturalized in many places in the S. of Eng.*

## SCROPHULARIACEÆ.

**Linaria supina**, Desf. Ls. lin., blunt, whorled.—Fls. capitate, yellow.—*Devonshire, Cornwall, &c.*

**L. purpurea**, L. Ls. lin.-lanc., scattered—Spur long—Fls. racemose, purple.—*Old walls.—An escape.*

**Veronica peregrina**, L. Annual—Ls. obt., ob. lanc.; upper sessile—Fls. in a spike-like raceme; cor. minute, much shorter than calyx.—*A common weed in many places.*

**V. repens**, D.C. Resembling *serpyllifolia*, but corolla much larger.—*Near Manchester and York.*

## LABIATÆ.

**Salvia verbenaca**, L. *b. clandestina*—Smaller—Upper ls. oblong, acute, less cord.—Cor. twice as long as calyx.—*Channel Islands.*

**Stachys annua**, L. Lower ls. ovate, oblong; floral ls. lanc.—Fls. yellowish.—*Corn-fields near Gadshill, Kent.*

## BORAGINACEÆ.

**Myosotis collina**, Reich. *b. Mittenii*—Fls. pale, the lower in the cyme bracteate.

## PRIMULACEÆ

**Primula scotica**, Hook. *b. acaulis*—Scape o.

**Lysimachia ciliata**, L. St. erect—Ls. ov.-lanc.—Fls. in axill. rac.—Sta. ten; five of them sterile.—*aturalized in several places.*

**L. punctata**, L. Resembles *L. vulgaris*, but has the flowers solitary and the segments of the corolla ciliate.—*Dulverton, Devon.*

## CHENOPODIACEÆ.

**Atriplex triangularis**, Willd. A prostrate form of *A. hastata*.—*Common on sea-shores.*

**A. nitens**, L. St. erect—Ls. triang.; glauc. beneath.—*Sea-shore near Ryde, I. of W. —Introduced.*

## POLYGONACEÆ.

- Polygonum Fagopyrum**, *L.* St. erect—Ls. sagittate—Fls. pale reddish, in spreading panicles.—*Dung-hills, &c.*
- Rumex obtusifolius**, *L.* *a. Friesii*—Enlarged sep. subulate, dentate below, with raised veins (*the common form*).—*b. sylvestris, &c.*—Enlarged sep. small, triang., slightly toothed, less strongly veined.
- R. crispus**, *L.* *b. elongatus, Guss.*—Enlarged sep. ovate, ent.—Ls. lin. lanc., not wavy or crisped.—*Putney.*
- R. conspersus**, *Hartin.* Ls. oblong, cordate at base, undulated at margins—Enlarged sep. cordate, toothed, netted.—*Kinross-shire.*
- R. maximus**, *Schreb.* Rad. ls. obl., acute, obliquely cordate below—Enlarged pet. ovate, entire, one-tubercled.—*Near Lewes.*
- R. scutatus**, *L.* Belongs to the *Acetosa* group—Ls. hastate, ovate, slightly fiddle-shaped.—*Naturalized in N. of Eng. and Scotland.*

## EUPHORBIACEÆ.

- Euphorbia Esula**, *L.* *b. pseudo-Cyparissias*—Ls. strap-shaped.—*Bellingham and Hulme Abbey, near Alnwick.*

## CONIFERÆ.

- Pinus Pinaster**, *Ait.*, differs from *P. sylvestris* in having larger ls., more channelled, and cones in sets of 4-7, 4 to 6 inches long.—*Poole.*

## IRIDACEÆ.

- Iris foetidissima.** *a. genuina*—Fls. purplish-blue with purple lines.—*b. citrina*—Fls. pale yellow with purple lines.—*Isle of Wight and Dorset.*
- I. Pseudacorus.** *a. genuina*—Sep. with orange spot at base—Pet. abruptly attenuated into claw.—*b. acoriformis*—Sep. as var. *a*—Pet. gradually attenuated into claw.—*c. Bastardi*—Sep. without orange spot at base (rare).

## LILIACEÆ.

- Allium Ampeloprasum.** *Var. 3. bulbiferum*—Head bulbs few.—*Rocks below St. Peter's Barracks, Guernsey.*
- A. vineale.** *a. capsuliferum*—Head bulbs o.—*Jersey.*—*b. bulbiferum*—Head bulbs and fls. mixed.—*Southend, Gravesend, &c.*—*c. compactum*—Head bulbs many, no fls.—*Common form.*

## NAIADACEÆ.

- Potamogeton polygonifolius.** *Var. Kirkii*—Ls. all similar, long-stalked; submersed ls. very long, sess., ent., narrowed at both ends, with many parallel veins near the midrib.—*Ma'am, Galway.*
- P. Lonchitis**, *Tucker.* Very near *sparganiifolius*, but submerged ls. narrow, strap-shaped.—*River Boyne, near Navan.*
- P. mucronatus**, *Schrad.* Ls. lin., five-veined, suddenly apiculate—Spikes short, lax.
- P. Zizii**, *M. and K.* Resembling *P. lucens*, but smaller; ls. narrower and longer stalked, with entire margins.—*Caulshiels Loch, near Melrose.*
- Zannichellia polycarpa**, *Nolte.* Style much shorter than the other species, scarcely a sixth as long as the converging sess. nuts.—*Swanbuster Loch, Orkney.*

## ARACEÆ.

- Typha latifolia.** *b. media*—Male and female spikes separated by a short space.—*Wimbledon.*

## JUNCACEÆ.

- Juncus acutiflorus.** *b. macrocephalus*, Koch.—Fls. in fascicles of 6-12—Perianth dark brown, as long as the capsule.—*Kingcausie, Kincardineshire.*
- J. pygmæus**, Thuil. Heads sess., stalked; sep. linear acute, exceeding the long acute three-edged capsule.—*Land's End.*
- J. supinus**, Mærch. (*J. uliginosus*, Siph.). *b. Kæpii*—Stamens 6; filaments longer; capsule retuse.
- Luzula multiflora.** *Var. 2. congesta*, Lej.—Clusters subsess., in a roundish lobed head.—*Alpine situations.*—*Var. 3. Sudetica*—Ls. only hairy at base—Capsule shorter and darker brown than the other vars.—*Glen Callater, and probably in other alpine situations.*
- Rhynchospora alba**, Vahl. *a. sordida*—Spikelets pale brown in small oval clusters, often shorter than the outer bracts.—*Devon, Monmouth, and Ireland.*

## CYPERACEÆ.

- Isolepis Savii.** *b. monostachys*—Spikelets small, sol.—*Not uncommon.*
- Carex muricata**, L. *b. pseudo-divulsa*—Spikes greatly interrupted below—Glu. paler and greener than var. *a.*—*Kent and Surrey.*
- C. vulgaris**, Fries. *b. uliginosa*—Densely cæspitose, stems numerous; fruit obtuse.—*Muddy places.*
- C. glauca**, Scop. *b. Micheliana*—Glumes obtuse—Spikelets cylind.—*Aberdeenshire.*—*c. stictocarpa*—Glumes obt.—Spikelets short.—*Clova.*
- C. extensa**, Good. *b. minor*—Stems short, often curved, shorter than ls.—Fruit more gradually attenuated into beak.—*Scotland.*
- C. hirta**, L. *b. ebracteata*—Bracts with a subulate point, but no foliaceous lamina, even the lowest bract scarcely sheathing.—*Epsom.*
- C. ampullacea.** *b. involuta*—Ls. involute—St. more triang.—Female spikes have the fruit much more lax and not spreading.—*Lancashire and Cheshire.*
- C. ornithopoda**, Willd. Fertile spikes about 3, approximate, linear, lax; fr. pubescent, longer than the glume.—*Miller's Dale, Derbyshire.*
- C. frigida**, All. Fertile spikes about 4, oblong: upper sess., the lowest on very long stalks; fruit with a bidentate, ciliate beak.—*Loch Caen-mor, Glen Callater.*
- C. aquatilis**, Wahl. *b. Watsoni*—Habit of *C. acuta*—Male spikes 2; gl. acute—Taller and spikes longer than var. *a.*—*Lanarkshire, and banks of the Almond at Linlithgow Bridge.*
- C. ovalis**, Good. *b. bracteata*—Bracts of the lowest spikelet foliaceous, longer than the spike.—*Castle Morton Common, Worcestershire.*

## GRAMINA.

- Phleum pratense**, L. *b. nodosum*—Stems more or less decumbent below, geniculate and often swollen at base.—*Common.*
- Alopecurus alpinus.** *b. Watsoni*—Pan. lax, usually longer than var. *a.*; glumes more gradually acute.—*Alpine places.*
- Psamma Baltica**, R. and S. Panicle lanc.—Gl. and pales very acute, lower ones ribbed; hairs half as long as pales—*Ross Links, Northumberland.*
- Calamagrostis stricta.** *b. Hookeri*—Pan. denser, hairs longer—Awn slightly exceeding the lower pale.—*Ireland.*



GRAMINA (*continued*).

- Aira cæspitosa**, *L. b. brevifolia*—Rad. ls., short stem, and heads smooth—Pan. short.—*Mountain districts, common*.—*c. pseudo-alpina*—Spikelets larger than var. *b.*—Pale olive, usually viviparous.—*Rare*.
- A. uliginosa**, near *A. flexuosa*. Ls. capillary—Upper glumes larger.—*Wet turfy bogs*.
- A. flexuosa**, *L. b. montana*—Glumes purple, larger.—*Mountains*.
- A. setacea**, *Curt.* Pan. close, oblong with short branches; bracts and pedicles rough—Ls. setaceous, involute; sheaths rough; ligule obl. acute.—*Dry heaths in S.W. of England*.
- Avena fatua**, *L. a. pilosissima*—Lower pales densely clothed with hairs.—*b. intermedia*—Pale with a few hairs near insertion of awn.—*Surrey, Hants, &c.*
- Arrhenatherum avenaceum**. *b. nodosum*—Lower joints of the stem swollen into bulb-like knobs.—*Common*.
- Glyceria fluitans**. *b. pedicillata*—Lower branches of panicle in threes, not in twos as var. *a.*
- Poa stricta**, *Lindb.* A variety of *P. laxa*—Ls. flat to the tip—Panicles open in fl., spreading in fruit.
- Festuca ovina**, *L. b. tenuifolia*, *Sibth.*—Ls. setaceous, flaccid, green; rad. ls. longer—Fl.-glume mucronate.—*Mountain districts*.—*c. glauca*, *Hooker*—Ls. stouter, rigid, glaucous; rad. ls. short.—*Sea-shores*.—*d. major*, *Bosw.*—Taller, panicle larger—St. ls. broader than the radical ls., 1-2 ft. high.—*Meadows*.
- F. ambigua**, *Le Gall.* Resembling *F. myurus*—Shorter, upper empty glumes 3-6 times as long as lower.—*Studland Bay, Dorset*.
- F. rubra**, *L. b. arenaria*, *Osb.*—Rigid, creeping; ls. all involute.—*Sea-shores*.
- Bromus mollis**. *b. glabrescens*—Spikelets subglabrous—*Dry places*.—*c. Lloydianus*—Spikelets densely pubescent—Awns bent outwards.—*Cornwall and Channel Islands*.
- B. asper**, *Murr.* *b. Benekenii*—Upper sheaths glabrous—Fl.-glumes hairy.—*Near London*.
- B. madritensis**, *L. b. rigidus*, *Roth.*—Rachis, pedicles, &c., hairy.—*Channel Islands*.
- Koeleria cristata**. *b. gracilis*—Ls. narrow, involute—Pan. narrowed above and below—Gl. smooth, keel only glabrous.—*Chalky Downs*.—*c. albescens*—Ls. involute—Pan. slender, interrupted towards base—Gl. scabrous on keel.—*Sandy places near the sea*.

## LYCOPODIACEÆ.

- Isoetes Morei**, *D. Moore.* Near *I. lacustris*—Ls. 3 or 4 times longer and half the diameter.—*Upper Lake Bray, co. Wicklow*.

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*The following species have also been observed in their several localities, but have no claim to a place in the list of British plants:—*

- Glaucium phœniceum**, *Br.* Occasionally in Norfolk.
- Lepidium sativum**, *L.* (*Garden cress*). Rubbish heaps in many places.
- Silene annulata**, *Thore.* A casual in flax fields, &c.
- Saponaria vaccaria**, *L.* A casual in cornfields, &c.

**Rosa.** Several species have been reported from various localities as having escaped from gardens or accidentally introduced.

**Aremonia agrimonoides**, *D. C.* An escape from gardens in several parts of Perthshire.

**Sedum Cepœa**, *L.* Near Denham, Bucks.

**S. stellatum**, *L.* Henfield, Sussex.

**Ammi majus**, *L.* A weed on the banks of the Severn near Gloucester.

**Lonicera alpigena**, *L.* Collinton woods.

**Crucianella stylosa**, *D. C.* Near Scarborough.

**Valerianella eriocarpa**, *Desv.* Worcestershire.

**Aster** (*Michaelmas Daisy*). Several species have established themselves in some places, having escaped from gardens.

**Solidago lanceolata**, *L.* A garden escape.

**Calendula officinalis**, *L.* (*Marygold*). Waste places near cottages.

**Centaurea Jacea**, *L.* A garden escape.

**C. paniculata**, *L.*, and **C. Leucophœa**, *L.* St. Ouen's Bay, Jersey.—Introduced.

**C. montana**, *L.* Near Gradbitch, Stafford, and Richmond, York.

**Prenanthes purpurea**, *L.* Naturalized near the Castle, Isle of Skye.

**Hieracium.** Several species have been described or reported as occurring at various localities in the North of England and Scotland.

**Echinosperrum Lappula**, *Lehm.* Occasionally found on ballast, &c.

**Symphytum.** Several species have been noticed in various places; escapes from cultivation.

**Nicandra Physaloides**, *Gaertn.* Several places in the Isle of Wight, Hastings, Northfleet, Kent.

**Physalis Alkekengi**, *L.* Fole's Hill, Warwickshire.

**Hyoscyamus albus**, *L.* Ballast hills, Sunderland.

**Plantago arenaria**, *L.* Sand hills, Somerset.

**P. Psyllium**, *L.* St. Aubyn's Bay, Jersey.

**Atriplex hortensis**, *L.* Waste places.

**Euphorbia dulcis**, *L.* An escape in several places in Scotland.

**Cannabis sativa**, *L.* (*Hemp*). Waste places about towns; common.

**Crocus aureus**, *Sibth.*, and **C. biflorus**, *Mill.* Earton Park, Bury St. Edmunds.

**Narcissus poeticus**, *L.*, and **N. incomparabilis**, *Curt.* Shrubberies and old parks. In several places.

Several species of grass have been from time to time reported as casuals in cornfields, &c., being probably introduced with foreign seed-corn.

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\* The second and third columns refer to Sowerby's Botany [third edition], where a full description of the Genera will be found.

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